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INDUSTRIAL SECTOR TECHNOLOGY USE MODEL (ISTUM):
REGIONALIZED PROJECTIONS OF INDUSTRIAL
PRODUCTION INDEXES

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This informal report presents preliminary results of ongoing work or work that is more limited in scope and depth than that described in formal reports issued by the Energy and Environmental Systems Division.

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by

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D.A. Hanson, and D.S. Rothman

Energy and Environmental Systems Division
Policy and Economic Analysis Group

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1 INTRODUCTION

In the National Acid Precipitation Assessment Program (NAPAP), Task Group B (TG-B) is responsible for developing and testing models that can be used to project fuel use and air pollutant emissions by sector. As discussed in the Foreword, this work is being carried out in two phases. All activities described in this report have taken place under Phase 1 of the TG-B program. This report addresses one aspect of the system designed to supply energy-economic driver data to the TG-B emissions model set: regionalized projections of industrial production indexes by industry group. The components of the energy-economic driver module are shown in Fig. 1.

1.1 BACKGROUND AND SCOPE

The Industrial Sector Technology Use Model (ISTUM) requires, as one of its input files, a federal-region-level projection of production indexes by Standard Industrial Classification (SIC) code.¹ Twenty-seven manufacturing and nonmanufacturing SIC codes are included in the projection. Table 1 identifies these SIC codes and their corresponding categories.

Projections of regional industrial production indexes by industry group are derived from a national forecast of industrial activity (for each industry group). Depending on the industry group, the national forecast is supplied by either the Data Resources, Inc., (DRI) macroeconomic model² or the DRI Interindustry Service model.³ Manufacturing industry groups are represented by the Federal Reserve Board projection of industrial production contained in the DRI macroeconomic forecast, while nonmanufacturing industry groups use the relevant forecast from the DRI Interindustry Service model. The DRI model simulations correspond to energy projections in the 1985 National Energy Policy Plan (NEPP) of the U.S. Department of Energy.⁴

Each national forecast is transformed into a corresponding regional forecast through a dynamic regionalization scheme. The Argonne Regionalization Activity Module (ARAM) was developed to systematically generate regional forecasts* of energy and economic variables required by sector models in the TG-B emissions model set. The derivation of the generic regionalization algorithm embedded in ARAM and its application as part of the energy-economic driver module are discussed in Ref. 5. This

*The word "regional" is used to refer to either a single-state or a multistate region.

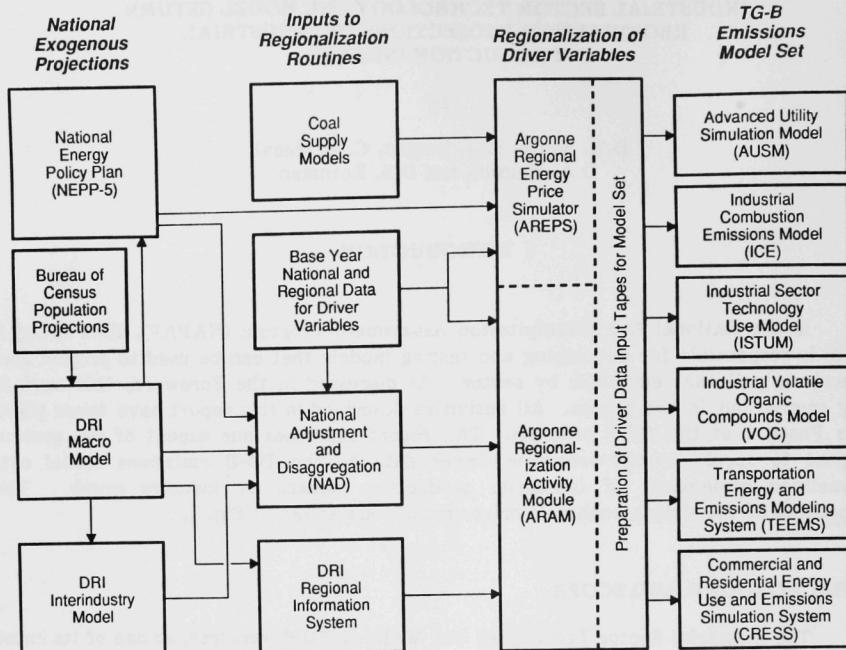


FIGURE 1 Block Diagram of the Energy-Economic Driver Module

report documents one specific application of ARAM; it describes the computational steps and data sources used to project, by industry group and federal region, industrial production indexes. These regional projections are then directly input to ISTUM.

In the TG-B emission model set, ISTUM produces estimates of fuel use by industrial process activity with these ARAM-derived input data. A postprocessing model, the Process Model Projection Technique (PROMPT), computes regional air pollutant emissions using ISTUM fuel-use projections by industrial sector. This report focuses on generating the input requirements for ISTUM; the input requirements for PROMPT are found in Ref. 6.

1.2 ORGANIZATION

The report is organized as follows. The configuration of ARAM as it is used in generating regional projections of industrial production indexes by industry group is described in Sec. 2. A more specific delineation of the computations and data sources used to prepare these regional forecasts is presented in Sec. 3. Finally, Sec. 4 contains some summary statistics and analyses of the regional projections prepared by ARAM for input to ISTUM. Key observations are provided for each scenario considered in the Phase 1 test runs. The projections prepared for each scenario are reported in the Appendix.

**TABLE 1 Industry Groups Included in the
Industrial Sector Technology Use Model
(ISTUM)**

Industrial Category	SIC Code
Agriculture	1
Livestock	2
Nonenergy mining	10, 14
Energy mining	11, 12, 13
Construction	15
Food	20
Tobacco	21
Textiles	22
Apparel	23
Lumber	24
Furniture	25
Paper	26
Printing and publishing	27
Chemicals	28
Petroleum refining	29
Rubber	30
Leather	31
Stone, clay, and glass	32
Iron and steel	331
Primary aluminum	3334
Miscellaneous primary metals	Rest of 33 ^b
Fabricated metals	34
Nonelectrical machinery	35
Electrical machinery	36
Transportation equipment	37
Instruments	38
Miscellaneous	39

^aFor ISTUM, SIC codes 10 and 14 are combined; they are reported as code 10A. Similarly, SIC codes 11-13 are combined and reported as code 11A.

^bThis industrial category is represented as 33R in ISTUM.

2 ARGONNE REGIONALIZATION ACTIVITY MODULE

The Argonne Regionalization Activity Module bridges the gap between national and regional modeling. It transforms the control values for energy and economic variables that are produced by national forecasting models into the regional projections required as input to sector models of the TG-B emissions model set. The regional projections are produced with a generic regionalization algorithm based on a modified shift-share approach. Beginning with base-year (1980) values by region, and taking into account national growth, the regional shifts in shares of the desired driver variable are based on a regional forecast of related economic activity variables, such as employment in the associated industry.* The regionalization algorithm used in ARAM is given below. The variable names are specified in general terms because this generic algorithm must be reformulated to generate the input data for ISTUM.

$$E_{r,i}(t) = E_{n,i}(t) \frac{E_{r,i}(0) A_{r,i}(t)}{\sum_{r=1}^{10} E_{r,i}(0) A_{r,i}(t)} \quad (1)$$

where:

$E_{r,i}(t)$ = regional projection of the desired driver variable for industry i at time t ,

$E_{n,i}(t)$ = national projection (control value) of the desired driver variable,

$E_{r,i}(0)$ = regional base-year (1980) value of the desired driver variable,

$A_{r,i}(t)$ = regional growth index of a related activity variable,

i = industry group required by ISTUM (see Table 1),

r = federal region, and

t = year, from 1980 to 2030 in five-year increments up to 2000 (1980, 1985, 1990, 1995, and 2000) and ten-year increments thereafter (2010, 2020, and 2030).

The appropriate driver variable for ISTUM is a growth index of "physical production." In the past, industrial production indexes at the two-digit SIC code level

*For a further description of ARAM, as well as how it contrasts with a traditional shift-share approach, see Ref. 5.

(except for steel, SIC 33) were used to drive ISTUM. However, output from a two-digit industry group is not homogenous. Products within an industry group differ with respect to their value added and are produced with different energy intensities (Btu per unit of output). Hence, the desired concept of "physical production" by industry can only be approximated by some form of index number.

Usually the Federal Reserve Board (FRB) index of industrial production is used. Historically, however, the FRB index for some major energy-intensive industries has been growing much faster than more reasonable measures of physical output. This problem is particularly evident in the chemical industry (SIC 28) and also in pulp and paper (SIC 26) and primary metals (SIC 33). The source of the problem seems to be a trend toward faster relative growth in products with higher value added per unit in the mix of outputs (i.e., a compositional effect). For example, energy-intensive, raw-material processing often grows at a slower rate than the industry as a whole, due to faster growth in downstream, highly fabricated, or specialty products.

Differences in growth rates between the FRB indexes and measures of physical output are incorporated in ISTUM. For the Phase 1 test runs, differential growth rates for two industries were reestimated; updated growth-rate correction values were then supplied to ISTUM.* The updated values are shown in Table 2. The industry group requiring the largest adjustment to the FRB index is chemicals (SIC 28). It is well known that the FRB chemical industry index has been growing very rapidly, both historically and in DRI projections, compared to energy-weighted indexes of chemical industry output. The energy-weighted indexes better reflect growth in materials processing and energy demand within the industry.

Although the FRB index for primary metals (SIC 33) has been growing 0.5% per year faster than material processing in the industry, no adjustment is recommended for ISTUM because it treats steel, aluminum, and the rest of SIC 33 separately. Growth rates computed from DRI Interindustry Service model projections for these components of SIC 33 seem to be consistently lower for steel and aluminum production relative to the "rest of 33" category.

TABLE 2 Projected Differential Growth Rate between FRB Production Indexes and a Measure of Physical Output (% per year)^a

Industry	SIC Code	1980- 2010	2010- 2030
Pulp and paper	26	-0.6	-0.4
Chemicals	28	-1.8	-1.4

^aThe formula to adjust ISTUM driver data for these growth rate differentials is: $I_{GR} + D_{GR} = A_{GR}$, where I is the industrial production index growth rate, D is the projected differential growth rate, and A is the adjusted industrial production growth rate.

Source: Ref. 7.

*See Ref. 7 for a more complete discussion of the methodology used to derive these differential growth rate estimates and the procedure used to adjust ISTUM driver data (growth indexes of physical production).

To regionalize physical industrial output with the ARAM formula (for input to ISTUM), appropriate notation must be introduced. At the national level, the growth index in physical output, $G_{n,i}(t)$ is related to the FRB industrial production index, $I_{n,i}(t)$, by:

$$G_{n,i}(t) = B_i(t) I_{n,i}(t) \quad (2)$$

where $B_i(t)$ accounts for the estimated difference in growth rates. For SIC codes 26 and 28, the $B_i(t)$ functions are related to the growth rates in Table 2 as follows:

$$B_i(t) = (1 + r_{i,1})^{-t} + 1980 \quad \text{when } 1980 \leq t \leq 2010$$

$$B_i(t) = (1 + r_{i,1})^{-30} (1 + r_{i,2})^{-t} + 2010 \quad \text{when } 2010 < t \leq 2030.$$

where:

$r_{i,1}$ = differential growth rate for 1980-2010 period, and

$r_{i,2}$ = differential growth rate for 2010-2030 period.

For all other industry groups $B_i(t) = 1$.

Although the differential growth rates (between the FRB indexes of industrial production and physical output) are estimated at the national level, we assume that these estimates can be applied uniformly across regions, so:

$$G_{r,i}(t) = B_i(t) I_{r,i}(t) \quad (3)$$

where $I_{r,i}(t)$ is a regional index of industrial production. These relationships cannot be substituted into the ARAM formula, as expressed in Eq. 1, since the equation is not in growth index form. Consequently, the generic regionalization algorithm must be reformulated before it can be used to generate the input data for ISTUM.

The ARAM formula can be written explicitly in the growth index form as follows:

$$G_{r,i}(t) = G_{n,i}(t) \frac{A_{r,i}(t)}{\sum_{r=1}^{10} W_{r,i} A_{r,i}(t)} \quad (4)$$

Equation 4 is obtained by dividing both sides of Eq. 1 by $E_{r,i}(0)$ and dividing numerator and denominator on the right-hand side of the equation by $E_{n,i}(0)$. The new notation introduced is defined as:

$G_{n,i}(t) = E_{n,i}(t)/E_{n,i}(0)$, or the growth index in the national projection of the driver variable, and

$W_{r,i} = E_{r,i}(0)/E_{n,i}(0)$, or the regional share of the driver quantity in the base year.

The weights, $W_{r,i}$, sum to one, and the denominator can be interpreted as the weighted average of the regional activity growth indexes.*

Substituting the relationships expressed in Eqs. 2 and 3 into the growth index form of the ARAM formula (Eq. 4) and canceling $B_i(t)$ from both sides of the equation yields:

$$I_{r,i}(t) = I_{n,i}(t) \frac{A_{r,i}(t)}{\sum_{r=1}^{10} W_{r,i} A_{r,i}(t)} \quad (5)$$

which is the industrial index form of the ARAM formula.

In applying Eq. 5, $I_{n,i}(t)$ is the industrial production index projected by DRI for each industry at the national level and $A_{r,i}(t)$ is the employment growth index for that industry by federal region. DRI state-level industry employment forecasts are aggregated to the ten federal regions to construct $A_{r,i}(t)$. The weights, $W_{r,i}$, are ideally base-year shares of "physical output." However, because "physical output" is difficult to define for heterogeneous industries, base-year regional shares of energy use are used as a proxy.[†] Energy-use shares should be a reasonable proxy, since it is often assumed that everything else being equal, energy use is proportional to physical output.

Under these assumptions, the ARAM formula can be used to obtain regional indexes of industrial production, $I_{r,i}(t)$. ISTUM itself applies the growth-rate correction to this regional index of industrial production to obtain the projected growth rate of physical output. This amounts to applying the $B_i(t)$ function shown in Eq. 3.

According to this formulation of the ARAM regionalization algorithm, industrial production indexes by SIC code and federal region are projected over the 1980-2030 period by multiplying an industry-group forecast of national production by an energy-weighted shift-share factor. The shift-share factor varies by industry group and time through the year 2009 in each region. Beyond 2009, regional shares are taken to be constant and equal to those shares that existed in 2009. This assumption was determined through an analysis of state shares for the period 2000 to 2009, computed from DRI Regional Information Service (RIS) forecasts. This analysis found relative stability in state shares after the year 2000 for all variables of interest. Initially, economic and demographic variables are projected to grow at different rates by state; beyond the year 2000, however, the growth-rate projections by state have essentially converged to the national average. The 1980-2000 period can be viewed as a period of adjustment, when some states gain shares and other states lose shares. By 2000, the projected adjustment in shares has essentially been completed.

*A further description and interpretation of this formulation of ARAM is found in Ref. 5.

[†]For a similar use of energy-weighted output indexes as predictors of energy use, see Ref. 8.

3 PREPARATION OF PROJECTIONS

The federal-region-level projections of industrial production indexes are prepared in two steps. Section 3.1 describes the general procedure and data used to prepare the projections, and Sec. 3.2 addresses some scenario-specific considerations.

3.1 GENERAL PROCEDURE

As indicated, federal-region-level projections of industrial production indexes, an input to the ISTUM model, are generated automatically by ARAM. A submodule in ARAM assembles and prepares the input data for the regionalization algorithm. The data sources and procedural steps associated with the algorithm input data are delineated below. The overall objective of this ARAM regionalization submodule is to produce federal-region-level projections of industrial production indexes by SIC code, i, and time period, t. This product is defined as variable $I_{r,i}(t)$.

$I_{n,i}(t)$ = national index of industrial production by SIC code i and time period t. Two data sources supply the forecasts for these national indexes; the SIC code determines which data source is used. For SIC codes 20-39, excluding SIC 33 (primary metals), the FRB projection of industrial production contained in the DRI macroeconomic forecast supplies the requisite outlook. Alternatively, for SIC codes 1, 2, 10-15, 331, 3334, and the remainder of SIC 33 (designated as 33R), the forecast of industrial activity is supplied by the DRI Interindustry Service model (an input/output model of 403 sectors). The data supplied by both of these models are indexed to base year 1980.

$W_{r,i}$ = a regional energy-consumption index for each SIC code. For SIC codes 20-39, including 331, 3334,* and 33R, total purchased fuels and electric energy data for 1980 are used to construct the index $[F_{r,i}(1980)/F_{n,i}(1980)]^{\dagger}$. These data are contained in the 1980 Annual Survey of Manufactures (ASM).⁹

*SIC 3334 was obtained by adjusting the fuel use values for SIC 333 to account for the existence or nonexistence of aluminum plants in states (regions).

[†]The computed index reflects only purchased fuels, whereas ISTUM models both purchased and nonpurchased fuels. However, nonpurchased fuel data at the required spatial and industrial detail were unavailable. Therefore, the following assumption was made: nonpurchased fuels have the same spatial distribution pattern as purchased fuels. Thus, their exclusion from the index would not affect the regional fuel-share computation.

Because the 1980 ASM includes only manufacturing industries, data values for SIC codes 1, 2, and 10-15 had to be obtained elsewhere. For SIC codes 10-14, data on purchased fuels and electric energy consumed were taken from the 1977 Census of Minerals Industries¹⁰ and indexed (according to the above procedure). For SIC codes 1, 2, and 15, fuel-use data could not be obtained; the data available for farms did not distinguish between industry groups 1 and 2. Consequently, regional employment by SIC code (1, 2, and 15) is used, with the assumption that employment shares are equivalent to energy shares in 1980. A different procedure could be followed in subsequent applications of ARAM.

$A_{r,i}(t)$ = federal-region-level activity index used to regionalize industrial production indexes. Employment by SIC code is used. Regional employment data by SIC code are taken directly from the DRI/RIS projections for the period 1980 through 2009.* The exceptions to this rule are SIC codes 1, 2, 10-14, 331, 3334, and 33R (remainder of SIC code 33). Here an employment variable is derived, since the DRI/RIS model does not generate employment forecasts below the two-digit level or for farm employment.

An employment forecast for SIC codes 1 and 2 (agriculture and livestock, respectively) is derived through a two-step process. First, total regional employment is computed by using the labor force projection (LCQ2) and unemployment rate outlook (RUQ2) provided by the DRI/RIS model. Next, total regional employment is multiplied by regional employment shares for SIC codes 1 and 2 calculated from the 1980 OBERS forecast.¹² The employment forecasts for SIC codes 331, 3334, and 33R are generated in a similar manner. Employment shares for each of the primary metals categories (331, 334, and 33R) are computed relative to SIC 33 with data contained in the 1977 Census of Manufactures.¹³ Then the calculated shares are multiplied by the employment forecast for SIC 33 taken from the DRI/RIS forecast.

For SIC codes 10-14, a three-step process is followed. First, energy mining (11-13) and nonenergy mining (10, 14) categories are established. Next, regional employment shares for these two categories are calculated relative to total mining employment using the 1980 OBERS forecast.¹²

*For a discussion of these DRI/RIS projections, see Ref. 11.

Finally, the regional employment shares for each category are multiplied by the mining industry employment forecast (EMI) contained in the DRI/RIS model. Regional employment for each of the above SIC codes is indexed to conform with the activity variable specification, $E_{r,i}(t)/E_{r,i}(1980)$.

Once the data for each input variable are assembled, the ARAM regionalization algorithm can be accessed and federal-region-level projections of industrial production indexes by SIC code generated. Two facts should be noted. First, two variables are scenario-specific: $I_{n,i}(t)$ and $A_{r,i}(t)$. Second, the shift-share factor of the ARAM regionalization algorithm is held constant after 2009, to correspond with the assumption of constant state shares in the post-2009 period. Consequently, the input variable $A_{r,i}(t)$ does not require an explicit extension from 2009 to 2030.

3.2 SCENARIO-SPECIFIC CONSIDERATIONS

Three economic-growth scenarios are included in the test runs of the TG-B emissions model set planned under Phase 1. These scenarios correspond with those contained in the 1985 NEPP.⁴ They are referred to as low, reference, and high. A macroeconomic forecast for the low and reference scenarios was prepared by DRI. For the high-growth scenario, a macroeconomic forecast was prepared by Argonne National Laboratory, but only for selected variables. This forecast is based on GNP growth rates for the high scenario contained in the 1985 NEPP and economic relationships derived from existing DRI forecasts (low and reference scenarios). The methodology used was approved by DOE's Office of Policy, Planning, and Analysis.*

As indicated in Sec. 2, a regional economic activity forecast is required as an input to the ARAM formula; the forecasted values are supplied to variable $A_{r,i}(t)$. The regional economic activity forecast used in ARAM to regionalize the national industrial production projections (indexed) for the low and reference scenarios was prepared by the DRI/RIS model. Because the reference scenario has relatively high economic growth, and the regional distribution of economic activity would probably undergo only a marginal redistribution of activity shares under a scenario with higher economic growth, the high-growth scenario in the Phase 1 test runs was based on regional shares from the DRI/RIS reference forecast. A separate regional forecast for the high scenario could be prepared in future exercises.

*The methodology and results for industrial production indexes under the high economic-growth scenario are described in App. B of Ref. 7.

4 OBSERVATIONS

In this section, some observations are provided on the national and regional projections of industrial production indexes. National projections for the three scenarios are compared and regional projections for the reference scenario are analyzed. Regional projections for all three scenarios are included in the Appendix. In considering the results presented here, the reader should remember that all national and regional values are indexed to the year 1980.

4.1 COMPARISON OF NATIONAL PROJECTIONS BY SCENARIO

National projections of industrial production indexes by industry group and scenario are presented in Table 3 for the years 2000 and 2030. These projections are presented in the form of annual growth rates for the periods 1980-2000 and 2000-2030 in Table 4. Growth differs markedly among industry groups within a scenario and year. In the reference scenario for the year 2000, industries that make up SIC 30 (rubber) have a projected production index of 2.964, reflecting an average annual growth rate of 5.6% (1980-2000). At the other extreme, the projection for industries that constitute SIC 31 (leather) in the same year is 0.911, reflecting an average annual decline of nearly 0.5% between 1980 and 2000. This is the only industry group that shows a decline over this period. The disparity in growth continues until 2030, when the respective index values are 7.357 and 0.573.

Within most industry groups, growth rates decrease in the latter years of the projection period (i.e., post-2000), as illustrated by comparing average annual growth rates for the two periods presented in Table 4. Exceptions to this general trend are seen in industry groups 11A (energy mining) and 21 (tobacco), whose growth rates are larger for the period 2000-2030 than for 1980-2000. This pattern is also evident in the low and high scenarios, as shown in Table 4.

To illustrate the similarity in growth patterns between the three scenarios, the five most energy-intensive industries (as measured by purchased fuel use in Table 1) are depicted by scenario in Figs. 2-4. These five industry groups are representative of the set of industries analyzed, ranging from the second-fastest-growing sector (SIC 28, chemicals) to the second-slowest-growing sector (SIC 29, petroleum refining) (see Tables 3 and 4). Although the level of growth for each energy-intensive industry differs by scenario, the pattern of growth is very similar (compare Figs. 2-4). The principal difference between the scenarios is that growth tapers off earlier in the low scenario than in the reference and high scenarios. This pattern is most clearly seen for SIC 29. From 2010 to 2030 in the low scenario, the SIC 29 production index actually declines, whereas growth continues in the reference and high scenarios, albeit at a slow pace. Table 3 shows that this pattern also occurs for SIC 23 (textiles) during the period 2000-2030.

The high scenario has a proportionately larger effect on the growth rates of industry groups 331 (iron and steel) and 32 (stone, clay, and glass) than on SIC 26 (paper). In the low scenario, these first two groups show significantly slower growth in

TABLE 3 Industrial Production Indexes by Industry Group and Scenario^a

SIC Code	Purchased Fuels (10 ¹² Btu) ^b	Industrial Production Indexes by Scenario and Year					
		Reference		Low		High	
		2000	2030	2000	2030	2000	2030
1	-- ^c	1.396	1.882	1.321	1.597	1.444	2.118
2	-- ^c	1.396	1.882	1.321	1.597	1.444	2.118
10A	357.6 ^d	1.752	3.319	1.594	2.728	1.871	4.039
11A	792.0 ^d	1.172	1.736	1.059	1.436	1.235	2.009
15	-- ^c	1.287	1.812	1.077	1.334	1.391	2.150
20	913.1	1.576	2.608	1.479	2.122	1.653	3.079
21	22.7	1.236	1.947	1.126	1.602	1.304	2.289
22	292.3	1.571	2.282	1.286	1.506	1.709	2.775
23	61.0	1.451	2.245	1.221	1.113	1.565	2.990
24	184.8	1.791	2.358	1.491	1.760	1.940	2.694
25	46.2	2.096	3.423	1.680	2.558	2.312	4.054
26	1262.2	1.756	2.920	1.622	2.450	1.854	3.389
27	91.1	1.729	2.686	1.620	2.325	1.816	3.036
28	2630.2	2.412	6.631	2.088	4.890	2.663	8.755
29	1137.4	1.231	1.433	1.145	1.208	1.276	1.560
30	222.7	2.964	7.357	2.577	5.375	3.284	9.373
31	18.4	0.911	0.573	0.693	0.226	0.956	0.699
32	1077.5	1.761	2.859	1.552	2.364	1.887	3.291
331	1395.4	1.620	2.722	1.365	2.118	1.766	2.275
3334	312.8	1.620	2.440	1.320	1.720	1.778	2.958
33R	532.4	1.499	1.970	1.192	1.223	1.654	2.413
34	351.9	1.841	3.406	1.500	2.692	2.028	4.067
35	324.8	2.661	4.934	2.047	4.089	2.961	5.721
36	235.0	2.597	4.692	2.154	4.076	2.835	5.346
37	329.1	2.170	3.585	1.791	3.043	2.381	4.040
38	78.5	2.383	5.487	1.818	4.187	2.686	6.893
39	43.2	1.780	3.065	1.430	2.197	1.953	3.756

^a1980 = 1.000 for all categories.^b1981 values, from Ref. 15, except as noted.^cData not available.^d1982 values, from Ref. 14.

Source: ARAM projections.

**TABLE 4 National Growth Rates in Industrial Production
Indexes by Industry Group and Scenario**

Annual Percentage Change by Scenario and Time Period						
SIC Code	Reference		Low		High	
	1980- 2000	2000- 2030	1980- 2000	2000- 2030	1980- 2000	2000- 2030
1	1.7	1.0	1.4	0.6	1.9	1.3
2	1.7	1.0	1.4	0.6	1.9	1.3
10A	2.8	2.2	2.4	1.8	3.2	2.6
11A	0.8	1.3	0.3	1.0	1.1	1.6
15	1.3	1.1	0.4	0.7	1.7	1.5
20	2.3	1.7	2.0	1.2	2.5	2.1
21	1.1	1.5	0.6	1.2	1.3	1.9
22	2.3	1.3	1.3	0.5	2.7	1.6
23	1.9	1.5	1.0	-0.3	2.3	2.2
24	3.0	0.9	2.0	0.6	3.4	1.1
25	3.8	1.6	2.6	1.4	4.3	1.9
26	2.9	1.7	2.4	1.4	3.1	2.0
27	2.8	1.5	2.4	1.2	3.0	1.7
28	4.5	3.4	3.8	2.9	5.0	4.0
29	1.0	0.5	0.7	0.2	1.2	0.7
30	5.6	3.1	4.8	2.5	6.1	3.6
31	-0.5	-1.5	-1.8	-3.7	-0.2	-1.0
32	2.9	1.6	2.2	1.4	3.2	1.9
331	2.4	1.7	1.6	1.5	2.9	2.1
3334	2.4	1.4	1.4	0.9	2.9	1.7
33R	2.0	0.9	0.9	0.1	2.5	1.3
34	3.1	2.1	2.0	2.0	3.6	2.3
35	5.0	2.1	3.6	2.3	5.6	2.2
36	4.9	2.0	3.9	2.1	5.3	2.1
37	4.0	1.7	3.0	1.8	4.4	1.8
38	4.4	2.8	3.0	2.8	5.1	3.2
39	2.9	1.8	1.8	1.4	3.4	2.2

Source: Computed from ARAM projections.

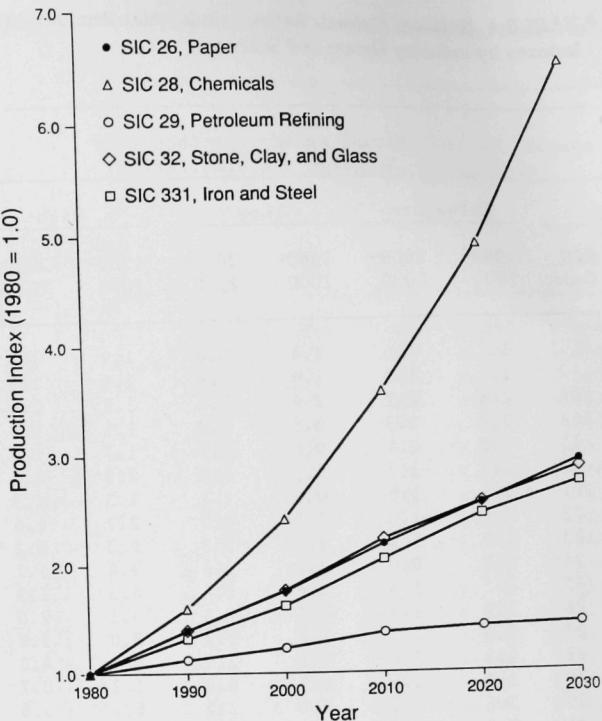


FIGURE 2 Projection of Industrial Production Indexes by Energy-Intensive Industry Group: Reference Case

their respective production indexes than the latter. In the high scenario, however, the growth among the three groups is almost indistinguishable. Other differences in the effect of the scenario on growth rates by industry group can be seen by a careful examination of Table 4.

4.2 REGIONAL PROJECTIONS OF INDUSTRIAL PRODUCTION INDEXES BY INDUSTRY GROUP

Through the use of ARAM, the national projections described above are transformed into regional projections of industrial production indexes. This section focuses on the reference-scenario projections. (The Appendix contains the projections for all three scenarios.) Table 5 lists the states that make up each of the ten federal regions.

Tables 6 and 7 present the projected industrial production indexes and growth rates by industry group and region for the reference scenario. At the national level,

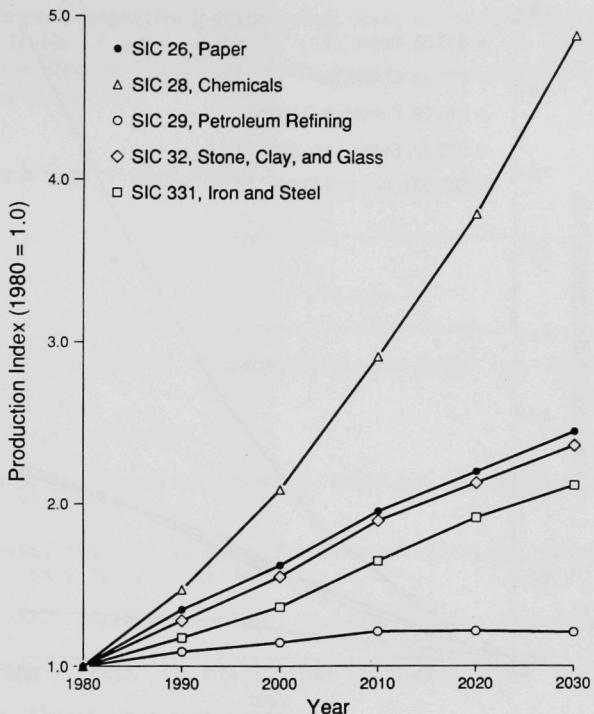


FIGURE 3 Projection of Industrial Production Indexes by Energy-Intensive Industry Group: Low Case

for all industry groups except SIC codes 11A (energy mining), 21 (tobacco), and 31 (leather), the indexes continue to increase until 2030, but with declining rates of growth. The picture becomes more complicated when the regional projections are examined. Industry groups 21 (tobacco), 22 (textiles), and 3334 (primary aluminum) show no activity in one or more regions. Industry groups 11A (energy mining) and 29 (petroleum refining) are located in regions with negative growth rates for at least one of the periods considered (see Table 7). In industry group 31 (leather), which had negative growth at the national level, three regions (6, 7, and 10) show positive growth in the industrial production index in at least one period. In many cases, the regional growth rate of an industrial production index is larger for the period 2000-2030 than for 1980-2000.

These differences among regions reflect a projected geographical redistribution of industrial activity. This redistribution is illustrated more clearly in Table 8, which shows the projected direction and magnitude of the change in the regional share of employment in each industry group. The numerical values are presented in the Appendix. For example, between 1980 and 2030, federal region 1 is projected to have a 5-15%

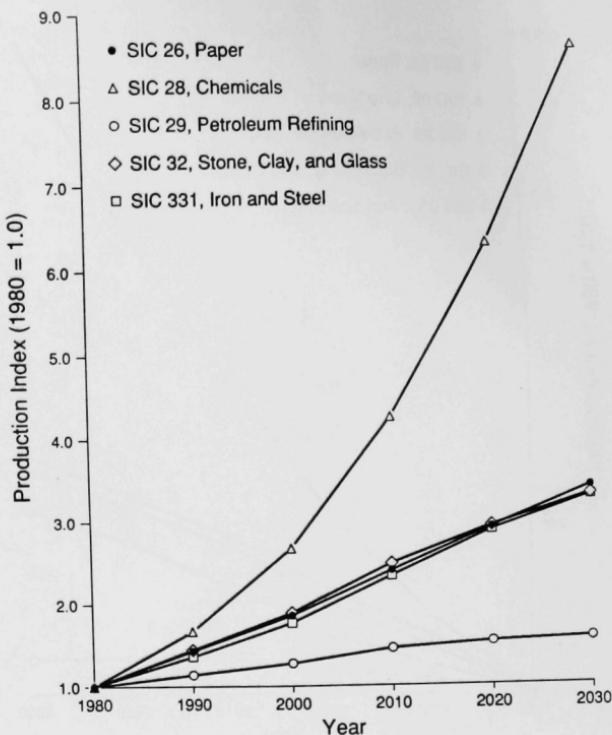


FIGURE 4 Projection of Industrial Production Indexes by Energy-Intensive Industry Group: High Case

decrease in its share of employment in SIC 1 (agriculture), reflecting a slower growth rate for the region than for the nation as a whole. Specifically, the percentage change in regional shares is mathematically equal to:

$$[\bar{A}_{r,i}(t)/\bar{A}_{n,i}(t) - 1.0] \times 100\% \quad (6)$$

where $\bar{A}_{n,i}(t)$ is the weighted average growth in activity for the United States.

Table 8 contains a significant number of large positive and large negative values, indicating a substantial spatial redistribution of industrial activity. Within each industry group, this finding reflects a greater dispersion of employment and therefore industrial production by region. Specifically, there is a general trend toward increased employment in the South (federal region 4) and West (federal regions 8-10) relative to the East (federal regions 1-3) and Midwest (federal regions 5 and 7). This trend does differ by industry group, however, as shown by SIC codes 1 (agriculture), 2 (livestock), 10A (non-energy mining), 11A (energy mining), 15 (construction), and 24 (lumber) for federal

region 2. Within each respective industry group, many of the South and West regions had relatively low levels of employment in 1980, which tends to offset some of the significance associated with the large shift factors. The dispersion phenomenon is discussed further in Ref. 11.

TABLE 5 States in Each Federal Region

Federal Region	States
1	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
2	New Jersey, New York
3	Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia
4	Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
5	Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin
6	Arkansas, Louisiana, New Mexico, Oklahoma, Texas
7	Iowa, Kansas, Missouri, Nebraska
8	Alaska, Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming
9	Arizona, California, Hawaii, Nevada
10	Idaho, Oregon, Washington

TABLE 6 Industrial Production Indexes, by Federal Region and Time Period: Reference Scenario

SIC Code ^a	1		2		3		4		5	
	2000	2030	2000	2030	2000	2030	2000	2030	2000	2030
1	1.349	1.744	1.576	2.195	1.279	1.688	1.386	1.907	1.393	1.877
2	1.349	1.744	1.576	2.195	1.279	1.688	1.386	1.907	1.393	1.877
10A	1.136	1.811	2.657	5.410	1.645	3.071	1.837	3.546	1.669	3.061
11A	1.007	1.223	1.378	1.936	0.610	0.762	0.905	1.175	0.860	1.079
15	1.526	2.107	1.622	2.194	1.206	1.675	1.247	1.818	1.092	1.395
20	1.525	2.587	1.429	2.358	1.487	2.480	1.705	2.824	1.453	2.396
21	0.000	0.000	1.459	2.369	1.120	1.758	1.316	2.076	0.000	0.000
22	1.347	1.985	1.288	1.898	1.722	2.521	1.607	2.326	1.606	2.421
23	1.234	1.886	1.363	2.104	1.332	2.026	1.631	2.520	1.408	2.275
24	1.479	1.869	2.104	2.928	1.905	2.599	2.003	2.690	2.004	2.803
25	1.703	2.796	2.033	3.408	2.077	3.447	2.243	3.675	1.939	3.075
26	1.771	2.954	1.612	2.659	1.749	2.908	1.887	3.149	1.622	2.680
27	1.803	2.779	1.611	2.488	1.652	2.547	2.126	3.350	1.556	2.398
28	2.488	6.829	2.242	6.264	2.252	6.237	2.510	7.006	2.351	6.383
29	1.276	1.512	0.953	1.150	1.048	1.223	1.467	1.708	0.880	1.005
30	2.730	6.657	2.902	7.495	2.473	6.172	3.614	9.188	2.785	6.874
31	0.827	0.489	0.889	0.563	0.913	0.566	0.877	0.547	0.998	0.652
32	2.087	3.399	1.534	2.477	1.530	2.457	1.961	3.197	1.575	2.536
331	1.955	3.310	1.399	2.445	1.443	2.446	2.214	3.769	1.619	2.693
3334	0.000	0.000	1.376	2.126	1.424	2.135	2.164	3.251	1.723	2.539
33R	1.694	2.232	1.283	1.737	1.313	1.715	1.785	2.372	1.330	1.706
34	1.976	3.598	1.818	3.396	1.605	2.981	2.173	4.075	1.701	3.135
35	3.114	5.874	2.616	4.889	2.417	4.488	3.564	6.696	2.332	4.254
36	3.289	6.207	2.452	4.416	2.482	4.507	3.189	5.805	1.976	3.403
37	2.522	4.139	1.943	3.210	2.005	3.363	2.786	4.702	2.036	3.312
38	2.694	6.236	2.176	4.956	2.075	4.699	2.878	6.769	2.017	4.588
39	1.502	2.434	1.711	2.923	1.612	2.750	2.174	3.702	1.773	3.143

^aSee Table 1 for definitions of SIC codes.

Source: ARAM.

<u>6</u>		<u>7</u>		<u>8</u>		<u>9</u>		<u>10</u>	
2000	2030	2000	2030	2000	2030	2000	2030	2000	2030
1.333	1.760	1.271	1.633	1.330	1.716	1.653	2.355	1.505	2.067
1.333	1.760	1.271	1.633	1.330	1.716	1.653	2.355	1.505	2.067
1.572	3.026	2.121	4.124	1.917	3.775	1.681	2.994	1.842	3.632
1.434	2.240	0.900	1.198	0.831	1.105	1.111	1.572	0.984	1.269
1.266	1.879	1.209	1.809	1.361	1.955	1.489	2.110	1.042	1.469
1.703	2.829	1.565	2.570	1.743	2.878	1.678	2.807	1.729	2.842
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.533	2.147	1.352	1.853	0.000	0.000	1.318	1.926	1.566	2.415
1.281	1.921	1.415	2.260	1.388	1.969	1.527	2.428	1.717	2.868
1.840	2.405	1.645	2.099	1.548	1.978	1.501	1.978	1.685	1.950
2.100	3.395	2.273	3.698	2.388	3.768	2.421	4.131	2.157	3.716
1.794	3.000	1.692	2.829	2.173	3.973	1.781	2.950	1.636	2.698
2.004	3.144	1.690	2.626	2.142	3.380	1.876	2.962	1.913	2.986
2.418	6.606	2.312	6.387	3.007	8.250	2.437	6.679	3.093	8.408
1.246	1.445	1.250	1.451	1.111	1.297	1.450	1.709	1.238	1.481
3.082	7.627	2.903	6.268	2.226	5.519	2.936	7.342	2.777	7.031
1.149	0.734	1.049	0.673	0.743	0.400	0.958	0.677	1.755	1.034
2.061	3.272	1.515	2.402	1.923	3.109	1.991	3.373	1.763	3.033
1.821	3.118	1.914	3.169	2.005	3.722	1.785	2.920	1.840	3.118
1.811	2.738	1.954	2.863	0.000	0.000	0.000	0.000	1.925	2.893
1.521	2.008	1.594	2.050	1.601	2.259	1.548	2.002	1.486	1.928
2.007	3.720	1.851	3.336	2.061	3.610	2.178	4.109	1.798	3.332
2.922	5.534	2.225	4.020	4.388	9.066	3.513	6.499	2.957	5.590
2.939	5.437	2.230	4.040	3.783	7.594	3.309	6.102	3.348	6.321
2.136	3.710	2.367	3.967	3.157	5.274	2.447	4.098	2.384	4.301
2.567	6.066	3.573	8.350	2.939	6.954	3.056	7.202	2.573	6.278
1.858	3.491	1.770	3.074	2.268	3.852	1.920	3.359	2.758	4.957

TABLE 7 Average Annual Growth Rates in Industrial Production Indexes, by Regi

SIC Code ^a	1		2		3		4		5
	2000	2030	2000	2030	2000	2030	2000	2030	2000
1	1.5	0.9	2.3	1.1	1.2	0.9	1.6	1.1	1.7
2	1.5	0.9	2.3	1.1	1.2	0.9	1.6	1.1	1.7
10A	0.6	1.6	5.0	2.4	2.5	2.1	3.1	2.2	2.6
11A	0.0	0.7	1.6	1.1	-2.4	0.7	-0.5	0.9	-0.8
15	2.1	1.1	2.4	1.0	0.9	1.1	1.1	1.3	0.4
20	2.1	1.8	1.8	1.7	2.0	1.7	2.7	1.7	1.9
21	0	0	1.9	1.6	0.6	1.5	1.4	1.5	0
22	1.5	1.3	1.3	1.3	2.8	1.3	2.4	1.2	2.4
23	1.1	1.4	1.6	1.5	1.4	1.4	2.5	1.5	1.7
24	2.0	0.8	3.8	1.1	3.3	1.0	3.5	1.0	3.5
25	2.7	1.7	3.6	1.7	3.7	1.7	4.1	1.7	3.4
26	2.9	1.7	2.4	1.7	2.8	1.7	3.2	1.7	2.4
27	3.0	1.5	2.4	1.5	2.5	1.5	3.8	1.5	2.2
28	4.7	3.4	4.1	3.5	4.1	3.5	4.7	3.5	4.4
29	1.2	0.6	-0.2	0.6	0.2	0.5	1.9	0.5	-0.6
30	5.1	3.0	5.5	3.2	4.6	3.1	6.6	3.2	5.3
31	-0.9	-1.7	-0.6	-1.5	-0.5	-1.6	-0.7	-1.6	0
32	3.7	1.6	2.2	1.6	2.1	1.6	3.4	1.6	2.3
331	3.4	1.8	1.7	1.9	1.8	1.8	4.1	1.8	2.4
3334	0	0	1.6	1.5	1.8	1.4	3.9	1.4	2.8
33R	2.7	0.9	1.3	1.0	1.4	0.9	2.9	1.0	1.4
34	3.5	2.0	3.0	2.1	2.4	2.1	4.0	2.1	2.7
35	5.8	2.1	4.9	2.1	4.5	2.1	6.6	2.1	4.3
36	6.1	2.1	4.6	2.0	4.6	2.0	6.0	2.0	3.5
37	4.7	1.7	3.4	1.7	3.5	1.7	5.2	1.8	3.6
38	5.1	2.8	4.0	2.8	3.7	2.8	5.4	2.9	3.6
39	2.1	1.6	2.7	1.8	2.4	1.8	4.0	1.8	2.9

^aSee Table 1 for definition of SIC codes.

Source: Computed from ARAM projections.

gion and Time Period: Reference Scenario

	6		7		8		9		10		
	2030	2000	2030	2000	2030	2000	2030	2000	2030	2000	2030
1.0	1.4	0.9	1.2	0.8	1.4	0.9	2.5	1.2	2.1	1.1	
1.0	1.4	0.9	1.2	0.8	1.4	0.9	2.5	1.2	2.1	1.1	
2.0	2.3	2.2	3.8	2.2	3.3	2.3	2.6	1.9	3.1	2.3	
0.8	1.8	1.5	-0.5	1.0	-0.9	1.0	0.5	1.2	-0.1	0.9	
0.8	1.2	1.3	1.0	1.4	1.6	1.2	2.0	1.2	0.2	1.2	
1.7	2.7	1.7	2.3	1.7	2.8	1.7	2.6	1.7	2.8	1.7	
0	0	0	0	0	0	0	0	0	0	0	
1.4	2.2	1.1	1.5	1.1	0	0	1.4	1.3	2.3	1.5	
1.6	1.2	1.4	1.8	1.6	1.7	1.2	2.1	1.6	2.7	1.7	
1.1	3.1	0.9	2.5	0.8	2.2	0.8	2.1	0.9	2.6	0.5	
1.5	3.8	1.6	4.2	1.6	4.4	1.5	4.5	1.8	3.9	1.8	
1.7	3.0	1.7	2.7	1.7	4.0	2.0	2.9	1.7	2.5	1.7	
1.5	3.5	1.5	2.7	1.5	3.9	1.5	3.2	1.5	3.3	1.5	
3.4	4.5	3.4	4.3	3.4	5.7	3.4	4.6	3.4	5.8	3.4	
0.4	1.1	0.5	1.1	0.5	0.5	0.5	1.9	0.5	1.1	0.6	
3.1	5.8	3.1	5.5	2.6	4.1	3.1	5.5	3.1	5.2	3.1	
-1.4	0.7	-1.5	0.2	-1.5	-1.5	-2.0	-0.2	-1.2	2.9	-1.7	
1.6	3.7	1.6	2.1	1.5	3.3	1.6	3.5	1.8	2.9	1.8	
1.7	3.0	1.8	3.3	1.7	3.5	2.1	2.9	1.7	3.1	1.8	
1.3	3.0	1.4	3.4	1.3	0	0	0	0	3.3	1.4	
0.8	2.1	0.9	2.4	0.8	2.4	1.2	2.2	0.9	2.0	0.9	
2.1	3.5	2.1	3.1	2.0	3.7	1.9	4.0	2.1	3.0	2.1	
2.0	5.5	2.2	4.1	2.0	7.7	2.4	6.5	2.1	5.6	2.1	
1.8	5.5	2.1	4.1	2.0	6.9	2.4	6.2	2.1	6.2	2.1	
1.6	3.9	1.9	4.4	1.7	5.9	1.7	4.6	1.7	4.4	2.0	
2.8	4.8	2.9	6.6	2.9	5.5	2.9	5.7	2.9	4.8	3.0	
1.9	3.1	2.1	2.9	1.9	4.2	1.8	3.3	1.9	5.2	2.0	

TABLE 8 Direction of Change (1980-2030) in Regional Share of Projected Employment by Industry Group, Reference Scenario^a

SIC Code ^b	Federal Region									
	1	2	3	4	5	6	7	8	9	10
1	-	++	-	o	o	-	-	-	++	+
2	-	++	-	o	o	-	-	-	++	+
10A	--	++	-	o	-	-	++	+	-	+
11A	-	++	--	-	--	++	-	--	++	-
15	+	++	-	o	--	o	o	+	+	--
20	o	-	-	+	-	+	o	+	+	+
21	*	+	--	o	*	*	*	*	*	*
22	-	-	++	+	+	o	-	*	-	+
23	--	-	-	+	o	-	o	-	+	++
24	--	++	+	++	++	o	-	--	--	--
25	--	o	o	o	-	o	+	+	++	+
26	o	-	o	+	-	o	-	++	o	-
27	o	-	-	++	--	+	-	++	o	o
28	o	-	-	o	-	o	-	++	o	++
29	+	--	-	++	--	o	o	-	++	+
30	-	+	-	++	o	+	-	--	+	o
31	--	-	-	-	o	++	+	--	+	++
32	++	--	--	+	-	+	--	+	++	o
331	+	--	--	++	-	o	o	++	o	o
3334	*	--	--	++	o	o	+	*	*	+
33R	+	-	-	++	-	o	o	+	o	o
34	o	o	--	++	-	+	-	o	++	-
35	o	-	--	++	--	o	--	++	+	o
36	++	--	--	+	--	o	--	++	+	++
37	o	--	--	++	--	+	o	++	o	+
38	o	--	--	+	-	o	++	+	++	o
39	--	-	--	+	-	o	-	+	o	++

^a++ = an increase in share of >15%

+ = an increase from 5-15%

o = a change (increase or decrease) of <5%

- = a decrease from 5-15%

-- = a decrease of >15%

* = no employment in this sector-region combination.

^bSee Table 1 for definition of SIC codes.

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APPENDIX:**FEDERAL-REGION-LEVEL PROJECTIONS OF INDUSTRIAL PRODUCTION
INDEXES BY SCENARIO AND SIC CODE**

The SIC codes included (in the order presented) are 20-39, 1, 2, 10A, 11A, 15, 331, 3334, and 33R. The tabular format for each SIC code is as follows:

- Index of industrial production by federal region (1-10). Benchmark, 1980 = 1.000.
- Average annual growth rates (%) by federal region and five-year increment.
- Average annual growth rates (%) by federal region and selected time increment.
- Regional shift-share factor (%), computed as:

$$[A_{r,i}(t)/\bar{A}_{n,i}(t) - 1.0] \times 100\%.$$

The reference scenario projections appear in Sec. A.1 beginning on page 27. Projections for the low scenario, in Sec. A.2, start on page 57. Beginning on page 87 are projections for the high scenario.

A.1 REFERENCE SCENARIO

INDEX OF INDUSTRIAL PRODUCTION - SIC 20

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0863	1.2410	1.4032	1.5246	1.6963	1.8958	2.0615	2.2246	2.3996	2.5865
2	1.0000	1.1135	1.2166	1.3318	1.4286	1.5626	1.7283	1.8794	2.0280	2.1875	2.3580
3	1.0000	1.1125	1.2495	1.3611	1.4869	1.6387	1.8174	1.9763	2.1326	2.3004	2.4796
4	1.0000	1.1758	1.3720	1.5496	1.7050	1.8753	2.0700	2.2509	2.4290	2.6200	2.8241
5	1.0000	1.0947	1.1977	1.3334	1.4531	1.5922	1.7559	1.9094	2.0604	2.2225	2.3956
6	1.0000	1.1778	1.3645	1.5473	1.7031	1.8723	2.0734	2.2547	2.4330	2.6244	2.8289
7	1.0000	1.1230	1.2762	1.4311	1.5646	1.7127	1.8834	2.0480	2.2100	2.3838	2.5695
8	1.0000	1.1894	1.3905	1.5887	1.7425	1.9152	2.1092	2.2936	2.4750	2.6697	2.8777
9	1.0000	1.1401	1.3293	1.5230	1.6784	1.8582	2.0571	2.2369	2.4139	2.6038	2.8066
10	1.0000	1.1616	1.3754	1.5820	1.7285	1.8888	2.0833	2.2654	2.4446	2.6369	2.8424

INDEX OF INDUSTRIAL PRODUCTION - SIC 20 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.63	2.74	2.49	1.67	2.16	2.25	1.69	1.53	1.53	1.51
2	2.17	1.79	1.83	1.41	1.81	2.04	1.69	1.53	1.53	1.51
3	2.15	2.27	1.81	1.78	1.96	2.09	1.69	1.53	1.53	1.51
4	3.29	3.13	2.46	1.93	1.92	1.99	1.69	1.53	1.53	1.51
5	1.83	1.82	2.17	1.73	1.85	1.98	1.69	1.53	1.53	1.51
6	3.33	2.99	2.55	1.94	1.91	2.06	1.69	1.53	1.53	1.51
7	2.35	2.59	2.32	1.80	1.83	1.92	1.69	1.53	1.53	1.51
8	3.53	3.17	2.70	1.87	1.91	1.95	1.69	1.53	1.53	1.51
9	2.66	3.12	2.76	1.96	2.06	2.05	1.69	1.53	1.53	1.51
10	3.04	3.44	2.84	1.79	1.79	1.98	1.69	1.53	1.53	1.51

INDEX OF INDUSTRIAL PRODUCTION - SIC 20 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.13	2.20	1.57	1.92		-4.59	-4.81	-2.65	-2.65
2	1.00	1.80	1.92	1.57	1.73		-6.47	-10.80	-11.25	-11.25
3	1.00	2.00	2.03	1.57	1.83		-4.32	-7.16	-6.67	-6.67
4	1.00	2.70	1.96	1.57	2.10		5.47	6.46	6.30	6.30
5	1.00	1.89	1.91	1.57	1.76		-7.92	-9.27	-9.83	-9.83
6	1.00	2.70	1.99	1.57	2.10		4.90	6.34	6.47	6.47
7	1.00	2.26	1.87	1.57	1.91		-1.89	-2.31	-3.29	-3.29
8	1.00	2.82	1.93	1.57	2.14		6.90	8.80	8.31	8.31
9	1.00	2.62	2.06	1.57	2.09		2.19	4.80	5.63	5.63
10	1.00	2.77	1.88	1.57	2.11		5.74	7.93	6.98	6.98

INDEX OF INDUSTRIAL PRODUCTION - SIC 21

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1.0000	1.0543	1.2162	1.3508	1.4592	1.6080	1.7454	1.8816	2.0319	2.1934	2.3692
3	1.0000	0.9092	0.9807	1.0469	1.1197	1.2105	1.2949	1.3959	1.5074	1.6272	1.7576
4	1.0000	1.0384	1.1428	1.2311	1.3163	1.4257	1.5297	1.6490	1.7808	1.9223	2.0764
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

INDEX OF INDUSTRIAL PRODUCTION - SIC 21 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1.06	2.90	2.12	1.56	1.96	1.65	1.51	1.55	1.54	1.55
3	-1.88	1.53	1.31	1.35	1.57	1.36	1.51	1.55	1.54	1.55
4	0.76	1.93	1.50	1.35	1.61	1.42	1.51	1.55	1.54	1.55
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

INDEX OF INDUSTRIAL PRODUCTION - SIC 21 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2	1.00	1.91	1.81	1.54	1.74		9.25	12.38	14.58	14.58
3	1.00	0.57	1.46	1.54	1.13		-11.90	-13.77	-15.00	-15.00
4	1.00	1.38	1.51	1.54	1.47		2.65	1.38	0.42	0.42
5	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00

INDEX OF INDUSTRIAL PRODUCTION - SIC 22

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	0.9879	1.1708	1.2278	1.3466	1.5178	1.6525	1.7542	1.8308	1.9086	1.9852
2	1.0000	0.9923	1.1907	1.1791	1.2881	1.4447	1.5796	1.6768	1.7500	1.8244	1.8976
3	1.0000	1.1231	1.4536	1.5410	1.7222	1.9274	2.0982	2.2273	2.3246	2.4234	2.5206
4	1.0000	1.0914	1.3707	1.4496	1.6067	1.7871	1.9362	2.0594	2.1451	2.2363	2.3260
5	1.0000	1.0696	1.2667	1.4139	1.6060	1.8244	2.0151	2.1391	2.2325	2.3274	2.4208
6	1.0000	1.1194	1.3582	1.4271	1.5325	1.6664	1.7871	1.8971	1.9799	2.0640	2.1468
7	1.0000	1.1166	1.2747	1.2043	1.3523	1.4964	1.5428	1.6377	1.7092	1.7819	1.8534
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1.0000	1.0816	1.1933	1.2063	1.3176	1.4919	1.6032	1.7018	1.7761	1.8516	1.9259
10	1.0000	1.0623	1.3214	1.3952	1.5663	1.8035	2.0100	2.1337	2.2268	2.3215	2.4146

INDEX OF INDUSTRIAL PRODUCTION - SIC 22 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

29

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	-0.24	3.46	0.96	1.86	2.42	1.72	1.20	0.86	0.84	0.79
2	-0.15	3.71	-0.19	1.78	2.32	1.80	1.20	0.86	0.84	0.79
3	2.35	5.29	1.18	2.25	2.28	1.71	1.20	0.86	0.84	0.79
4	1.76	4.66	1.12	2.08	2.15	1.62	1.20	0.86	0.84	0.79
5	1.35	3.44	2.22	2.58	2.58	2.01	1.20	0.86	0.84	0.79
6	2.28	3.94	0.99	1.44	1.69	1.41	1.20	0.86	0.84	0.79
7	2.23	2.68	-1.13	2.34	2.05	0.61	1.20	0.86	0.84	0.79
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	1.58	1.98	0.22	1.78	2.52	1.45	1.20	0.86	0.84	0.79
10	1.22	4.46	1.09	2.34	2.86	2.19	1.20	0.86	0.84	0.79

INDEX OF INDUSTRIAL PRODUCTION - SIC 22 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	1.50	2.07	0.92	1.38		-9.16	-9.14	-8.33	-8.33
2	1.00	1.27	2.06	0.92	1.29		-7.62	-13.08	-12.38	-12.38
3	1.00	2.76	1.99	0.92	1.87		12.78	16.20	16.39	16.39
4	1.00	2.40	1.88	0.92	1.70		6.35	8.41	7.40	7.40
5	1.00	2.40	2.30	0.92	1.78		-1.72	8.37	11.78	11.78
6	1.00	2.16	1.55	0.92	1.54		5.38	3.41	-0.87	-0.87
7	1.00	1.52	1.33	0.92	1.24		-1.10	-8.76	-14.42	-14.42
8	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
9	1.00	1.39	1.98	0.92	1.32		-7.42	-11.09	-11.07	-11.07
10	1.00	2.27	2.53	0.92	1.78		2.52	5.68	11.50	11.50

INDEX OF INDUSTRIAL PRODUCTION - SIC 23

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0462	1.1723	1.1796	1.2344	1.3121	1.4339	1.5458	1.6517	1.7649	1.8861
2	1.0000	1.0280	1.1986	1.2557	1.3627	1.4644	1.5993	1.7241	1.8422	1.9685	2.1036
3	1.0000	1.0503	1.2002	1.2400	1.3318	1.4185	1.5402	1.6604	1.7742	1.8958	2.0259
4	1.0000	1.1792	1.4241	1.5098	1.6307	1.7464	1.9158	2.0653	2.2068	2.3581	2.5199
5	1.0000	1.0618	1.2010	1.2679	1.4078	1.5491	1.7298	1.8648	1.9925	2.1291	2.2753
6	1.0000	0.9930	1.1746	1.2062	1.2808	1.3521	1.4602	1.5741	1.6820	1.7973	1.9206
7	1.0000	1.0559	1.2665	1.2945	1.4148	1.5441	1.7178	1.8519	1.9788	2.1144	2.2595
8	1.0000	1.1023	1.2390	1.3267	1.3879	1.4149	1.4966	1.6134	1.7239	1.8421	1.9685
9	1.0000	1.2241	1.4150	1.4115	1.5270	1.6603	1.8457	1.9897	2.1261	2.2718	2.4277
10	1.0000	1.1193	1.4892	1.5377	1.7174	1.9203	2.1805	2.3506	2.5117	2.6838	2.8680

INDEX OF INDUSTRIAL PRODUCTION - SIC 23 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.91	2.30	0.12	0.91	1.23	1.79	1.51	1.33	1.33	1.34
2	0.55	3.12	0.93	1.65	1.45	1.78	1.51	1.33	1.33	1.34
3	0.99	2.70	0.65	1.44	1.27	1.66	1.51	1.33	1.33	1.34
4	3.35	3.85	1.18	1.55	1.38	1.87	1.51	1.33	1.33	1.34
5	1.21	2.50	1.09	2.11	1.93	2.23	1.51	1.33	1.33	1.34
6	-0.14	3.41	0.53	1.21	1.09	1.55	1.51	1.33	1.33	1.34
7	1.09	3.71	0.44	1.79	1.77	2.16	1.51	1.33	1.33	1.34
8	1.97	2.37	1.38	0.91	0.39	1.13	1.51	1.33	1.33	1.34
9	4.13	2.94	-0.05	1.59	1.69	2.14	1.51	1.33	1.33	1.34
10	2.28	5.88	0.64	2.23	2.26	2.57	1.51	1.33	1.33	1.34

INDEX OF INDUSTRIAL PRODUCTION - SIC 23 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	1.06	1.51	1.38	1.28		-8.28	-13.65	-15.25	-15.25
2	1.00	1.56	1.61	1.38	1.50		-6.22	-4.68	-5.48	-5.48
3	1.00	1.44	1.46	1.38	1.42		-6.09	-6.83	-8.97	-8.97
4	1.00	2.48	1.62	1.38	1.87		11.43	14.07	13.23	13.23
5	1.00	1.72	2.08	1.38	1.66		-6.03	-1.52	2.23	2.23
6	1.00	1.25	1.32	1.38	1.31		-8.10	-10.40	-13.70	-13.70
7	1.00	1.75	1.96	1.38	1.64		-0.90	-1.03	1.53	1.53
8	1.00	1.65	0.76	1.38	1.36		-3.05	-2.91	-11.55	-11.55
9	1.00	2.14	1.91	1.38	1.79		10.71	6.82	9.09	9.09
10	1.00	2.74	2.42	1.38	2.13		16.52	20.13	28.87	28.87

INDEX OF INDUSTRIAL PRODUCTION - SIC 24

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2367	1.4667	1.4220	1.4788	1.6040	1.7302	1.8006	1.8265	1.8504	1.8690
2	1.0000	1.3120	1.7561	1.9294	2.1040	2.3851	2.7108	2.8210	2.8616	2.8990	2.9282
3	1.0000	1.2310	1.5864	1.6979	1.9045	2.1568	2.4063	2.5092	2.5402	2.5734	2.5993
4	1.0000	1.2730	1.6558	1.8098	2.0025	2.2413	2.4901	2.5914	2.6286	2.6630	2.6898
5	1.0000	1.2863	1.6509	1.8024	2.0038	2.2894	2.5952	2.7008	2.7396	2.7754	2.8033
6	1.0000	1.2950	1.6464	1.7524	1.8396	2.0141	2.2266	2.3172	2.3505	2.3813	2.4052
7	1.0000	1.1593	1.4221	1.5294	1.6448	1.7911	1.9431	2.0221	2.0512	2.0780	2.0989
8	1.0000	1.1078	1.3538	1.4401	1.5475	1.6905	1.8312	1.9057	1.9331	1.9584	1.9781
9	1.0000	1.1490	1.3532	1.3937	1.5013	1.6882	1.8313	1.9058	1.9332	1.9585	1.9782
10	1.0000	1.1224	1.4031	1.5135	1.5928	1.6851	1.8050	1.8784	1.9054	1.9304	1.9498

INDEX OF INDUSTRIAL PRODUCTION - SIC 24 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	4.34	3.47	-0.62	0.79	1.64	1.53	0.80	0.29	0.26	0.20
2	5.58	6.01	1.90	1.75	2.54	2.59	0.80	0.29	0.26	0.20
3	4.24	5.20	1.37	2.32	2.52	2.21	0.80	0.29	0.26	0.20
4	4.95	5.40	1.79	2.04	2.28	2.13	0.80	0.29	0.26	0.20
5	5.16	5.12	1.77	2.14	2.70	2.54	0.80	0.29	0.26	0.20
6	5.31	4.92	1.26	0.98	1.83	2.03	0.80	0.29	0.26	0.20
7	3.00	4.17	1.47	1.47	1.72	1.64	0.80	0.29	0.26	0.20
8	2.37	4.09	1.24	1.45	1.78	1.61	0.80	0.29	0.26	0.20
9	2.2?	3.33	0.59	1.50	2.37	1.64	0.80	0.29	0.26	0.20
10	2.34	4.57	1.53	1.03	1.13	1.38	0.80	0.29	0.26	0.20

INDEX OF INDUSTRIAL PRODUCTION - SIC 24 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	1.98	1.58	0.39	1.26		-4.10	-16.07	-19.78	-19.78
2	1.00	3.79	2.57	0.39	2.17		14.82	19.41	25.67	25.67
3	1.00	3.27	2.37	0.39	1.93		3.72	8.09	11.56	11.56
4	1.00	3.53	2.20	0.39	2.00		8.26	13.65	15.44	15.44
5	1.00	3.54	2.62	0.39	2.08		7.94	13.73	20.32	20.32
6	1.00	3.09	1.93	0.39	1.77		7.64	4.40	3.23	3.23
7	1.00	2.52	1.68	0.39	1.49		-7.02	-6.65	-9.92	-9.92
8	1.00	2.21	1.70	0.39	1.37		-11.48	-12.17	-15.10	-15.10
9	1.00	2.05	2.01	0.39	1.37		-11.52	-14.79	-15.10	-15.10
10	1.00	2.35	1.26	0.39	1.34		-8.26	-9.60	-16.32	-16.32

INDEX OF INDUSTRIAL PRODUCTION - SIC 25

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2285	1.4140	1.5359	1.7027	1.9750	2.2160	2.3953	2.5266	2.6617	2.7957
2	1.0000	1.3148	1.6448	1.7896	2.0333	2.3830	2.7010	2.9195	3.0796	3.2443	3.4076
3	1.0000	1.3566	1.6605	1.8195	2.0771	2.4197	2.7321	2.9531	3.1150	3.2816	3.4468
4	1.0000	1.4027	1.7641	1.9718	2.2429	2.5895	2.9129	3.1485	3.3211	3.4987	3.6749
5	1.0000	1.2920	1.5764	1.7376	1.9387	2.2002	2.4372	2.6344	2.7788	2.9274	3.0748
6	1.0000	1.3921	1.7192	1.8875	2.1000	2.3970	2.6912	2.9089	3.0684	3.2325	3.3952
7	1.0000	1.5106	1.8410	2.0084	2.2730	2.6156	2.9312	3.1683	3.3420	3.5207	3.6980
8	1.0000	1.3317	1.8415	2.1193	2.3875	2.7295	2.9870	3.2286	3.4056	3.5878	3.7684
9	1.0000	1.4824	1.8685	2.0924	2.4207	2.8764	3.2742	3.5391	3.7331	3.9328	4.1308
10	1.0000	1.2781	1.6310	1.8848	2.1572	2.5453	2.9458	3.1840	3.3586	3.5382	3.7164

INDEX OF INDUSTRIAL PRODUCTION - SIC 25 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	4.20	2.85	1.67	2.08	3.01	2.33	1.57	1.07	1.05	0.99
2	5.63	4.58	1.70	2.59	3.23	2.54	1.57	1.07	1.05	0.99
3	6.29	4.12	1.85	2.68	3.10	2.46	1.57	1.07	1.05	0.99
4	7.00	4.69	2.25	2.61	2.92	2.38	1.57	1.07	1.05	0.99
5	5.26	4.06	1.97	2.21	2.56	2.07	1.57	1.07	1.05	0.99
6	6.84	4.31	1.89	2.16	2.68	2.34	1.57	1.07	1.05	0.99
7	8.60	4.04	1.76	2.51	2.85	2.30	1.57	1.07	1.05	0.99
8	5.90	6.70	2.85	2.41	2.71	1.82	1.57	1.07	1.05	0.99
9	8.19	4.74	2.29	2.96	3.51	2.62	1.57	1.07	1.05	0.99
10	5.03	5.00	2.94	2.74	3.36	2.97	1.57	1.07	1.05	0.99

INDEX OF INDUSTRIAL PRODUCTION - SIC 25 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.70	2.67	1.17	2.08	-16.63	-20.18	-20.37	-20.37	-20.37
2	1.00	3.61	2.88	1.17	2.48	-3.02	-4.69	-2.94	-2.94	-2.94
3	1.00	3.72	2.78	1.17	2.51	-2.10	-2.63	-1.83	-1.83	-1.83
4	1.00	4.12	2.65	1.17	2.64	4.01	5.14	4.67	4.67	4.67
5	1.00	3.37	2.31	1.17	2.27	-7.06	-9.12	-12.42	-12.42	-12.42
6	1.00	3.78	2.51	1.17	2.47	1.36	-1.56	-3.29	-3.29	-3.29
7	1.00	4.19	2.58	1.17	2.65	8.54	6.55	5.33	5.33	5.33
8	1.00	4.45	2.27	1.17	2.69	8.57	11.92	7.34	7.34	7.34
9	1.00	4.52	3.07	1.17	2.88	10.16	13.47	17.66	17.66	17.66
10	1.00	3.92	3.16	1.17	2.66	-3.84	1.12	5.85	5.85	5.85

INDEX OF INDUSTRIAL PRODUCTION - SIC 26

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1900	1.4238	1.6151	1.7705	1.9709	2.2044	2.3979	2.5733	2.7594	2.9535
2	1.0000	1.1992	1.3106	1.4675	1.6122	1.7857	1.9847	2.1589	2.3168	2.4844	2.6592
3	1.0000	1.1982	1.3927	1.5816	1.7492	1.9459	2.1708	2.3613	2.5340	2.7173	2.9084
4	1.0000	1.2529	1.4845	1.7022	1.8873	2.1022	2.3506	2.5569	2.7439	2.9423	3.1493
5	1.0000	1.1451	1.3095	1.4719	1.6215	1.7981	2.0010	2.1767	2.3359	2.5048	2.6810
6	1.0000	1.1692	1.3928	1.6105	1.7939	2.0005	2.2387	2.4352	2.6133	2.8023	2.9995
7	1.0000	1.1581	1.3403	1.5230	1.6920	1.8890	2.1114	2.2967	2.4647	2.6430	2.8289
8	1.0000	1.2208	1.5333	1.8390	2.1729	2.5568	2.9652	3.2255	3.4614	3.7117	3.9728
9	1.0000	1.1788	1.4039	1.6091	1.7807	1.9765	2.2020	2.3953	2.5705	2.7564	2.9503
10	1.0000	1.1277	1.3168	1.4841	1.6361	1.8096	2.0134	2.1901	2.3503	2.5203	2.6976

INDEX OF INDUSTRIAL PRODUCTION - SIC 26 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	3.54	3.65	2.55	1.85	2.17	2.26	1.70	1.42	1.41	1.37
2	2.82	2.66	2.29	1.90	2.07	2.14	1.70	1.42	1.41	1.37
3	3.68	3.05	2.58	2.03	2.15	2.21	1.70	1.42	1.41	1.37
4	4.61	3.45	2.77	2.09	2.18	2.26	1.70	1.42	1.41	1.37
5	2.75	2.72	2.36	1.96	2.09	2.16	1.70	1.42	1.41	1.37
6	3.18	3.56	2.95	2.18	2.20	2.28	1.70	1.42	1.41	1.37
7	2.98	2.97	2.59	2.13	2.23	2.25	1.70	1.42	1.41	1.37
8	4.07	4.66	3.70	3.39	3.31	3.01	1.70	1.42	1.41	1.37
9	3.34	3.56	2.77	2.05	2.11	2.18	1.70	1.42	1.41	1.37
10	2.43	3.15	2.42	1.97	2.04	2.16	1.70	1.42	1.41	1.37

INDEX OF INDUSTRIAL PRODUCTION - SIC 26 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.90	2.22	1.47	2.19		2.37	-0.06	-0.89	-0.89
2	1.00	2.42	2.10	1.47	1.98		-5.77	-9.00	-10.77	-10.77
3	1.00	2.84	2.18	1.47	2.16		0.13	-1.27	-2.40	-2.40
4	1.00	3.23	2.22	1.47	2.32		6.74	6.53	5.68	5.68
5	1.00	2.45	2.13	1.47	1.99		-5.85	-8.47	-10.03	-10.03
6	1.00	2.97	2.24	1.47	2.22		0.14	1.26	0.65	0.65
7	1.00	2.66	2.24	1.47	2.10		-3.63	-4.49	-5.07	-5.07
8	1.00	3.96	3.16	1.47	2.80		10.24	22.65	33.31	33.31
9	1.00	2.93	2.15	1.47	2.19		0.94	0.51	-1.00	-1.00
10	1.00	2.49	2.10	1.47	2.00		-5.32	-7.65	-9.48	-9.48

INDEX OF INDUSTRIAL PRODUCTION - SIC 27

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2759	1.4755	1.6607	1.8003	1.9860	2.1861	2.3485	2.4864	2.6310	2.7786
2	1.0000	1.1998	1.3518	1.4718	1.6105	1.7831	1.9572	2.1026	2.2261	2.3555	2.4877
3	1.0000	1.2365	1.3970	1.5099	1.6522	1.8259	2.0041	2.1530	2.2795	2.4120	2.5473
4	1.0000	1.4103	1.7010	1.9150	2.1262	2.3756	2.6355	2.8313	2.9976	3.1719	3.3498
5	1.0000	1.1804	1.3091	1.4233	1.5556	1.7197	1.8867	2.0269	2.1459	2.2707	2.3981
6	1.0000	1.3402	1.5870	1.7965	2.0038	2.2371	2.4732	2.6570	2.8130	2.9766	3.1436
7	1.0000	1.2083	1.3968	1.5380	1.6902	1.8763	2.0658	2.2193	2.3496	2.4863	2.6257
8	1.0000	1.4112	1.7005	1.9192	2.1417	2.3951	2.6595	2.8571	3.0249	3.2008	3.3804
9	1.0000	1.2739	1.5106	1.6893	1.8762	2.0973	2.3301	2.5032	2.6502	2.8043	2.9616
10	1.0000	1.2696	1.5185	1.7315	1.9131	2.1225	2.3496	2.5241	2.6724	2.8278	2.9864

INDEX OF INDUSTRIAL PRODUCTION - SIC 27 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	4.99	2.95	2.39	1.63	1.98	1.94	1.44	1.15	1.14	1.10
2	3.71	2.41	1.72	1.82	2.06	1.88	1.44	1.15	1.14	1.10
3	4.34	2.47	1.57	1.82	2.02	1.88	1.44	1.15	1.14	1.10
4	7.12	3.82	2.40	2.11	2.24	2.10	1.44	1.15	1.14	1.10
5	3.37	2.09	1.69	1.79	2.03	1.87	1.44	1.15	1.14	1.10
6	6.03	3.44	2.51	2.21	2.23	2.03	1.44	1.15	1.14	1.10
7	3.16	2.94	1.94	1.91	2.11	1.94	1.44	1.15	1.14	1.10
8	7.13	3.80	2.45	2.22	2.26	2.12	1.44	1.15	1.14	1.10
9	4.96	3.47	2.26	2.12	2.25	2.13	1.44	1.15	1.14	1.10
10	4.89	3.65	2.66	2.01	2.10	2.05	1.44	1.15	1.14	1.10

INDEX OF INDUSTRIAL PRODUCTION - SIC 27 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030	1990	2000	2010	2030
1	1.00	2.98	1.96	1.21	2.06	-1.29	-2.00	-3.05	-3.05
2	1.00	2.41	1.97	1.21	1.84	-9.57	-12.33	-13.20	-13.20
3	1.00	2.54	1.95	1.21	1.89	-6.54	-10.06	-11.12	-11.12
4	1.00	3.84	2.17	1.21	2.45	13.79	15.74	16.88	16.88
5	1.00	2.23	1.95	1.21	1.76	-12.42	-15.32	-16.32	-16.32
6	1.00	3.54	2.13	1.21	2.32	6.17	9.08	9.69	9.69
7	1.00	2.66	2.03	1.21	1.95	-6.55	-7.99	-8.38	-8.38
8	1.00	3.88	2.19	1.21	2.47	13.76	16.59	17.95	17.95
9	1.00	3.20	2.19	1.21	2.20	1.06	2.13	3.34	3.34
10	1.00	3.30	2.08	1.21	2.21	1.59	4.14	4.20	4.20

INDEX OF INDUSTRIAL PRODUCTION - SIC 28

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.3276	1.6696	2.0793	2.4879	3.0253	3.6724	4.3468	5.0590	5.8840	6.8288
2	1.0000	1.1723	1.5316	1.8587	2.2416	2.7465	3.3688	3.9875	4.6109	5.3977	6.2644
3	1.0000	1.1685	1.5188	1.8574	2.2515	2.7505	3.3541	3.9701	4.6206	5.3742	6.2371
4	1.0000	1.2260	1.6434	2.0570	2.5103	3.0823	3.7677	4.4597	5.1904	6.0368	7.0062
5	1.0000	1.1956	1.5638	1.9566	2.3511	2.8342	3.4325	4.0629	4.7286	5.4998	6.3829
6	1.0000	1.1719	1.5981	2.0123	2.4184	2.9221	3.5524	4.2048	4.8937	5.6918	6.6058
7	1.0000	1.1446	1.5407	1.9202	2.3124	2.8218	3.4347	4.0655	4.7316	5.5033	6.3869
8	1.0000	1.4634	1.9109	2.4139	3.0067	3.6907	4.4364	5.2511	6.1115	7.1081	8.2495
9	1.0000	1.1751	1.5620	1.9819	2.4365	2.9855	3.5919	4.2516	4.9482	5.7551	6.6792
10	1.0000	1.5158	2.0706	2.6111	3.0925	3.7201	4.5216	5.3520	6.2289	7.2447	8.4080

INDEX OF INDUSTRIAL PRODUCTION - SIC 28 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	5.83	4.69	4.49	3.65	3.99	3.95	3.43	3.08	3.07	3.02
2	3.23	5.49	3.95	3.82	4.15	4.17	3.43	3.08	3.07	3.02
3	3.16	5.38	4.11	3.92	4.08	4.05	3.43	3.08	3.07	3.02
4	4.16	6.04	4.59	4.06	4.19	4.10	3.43	3.08	3.07	3.02
5	3.64	5.52	4.58	3.74	3.81	3.91	3.43	3.08	3.07	3.02
6	3.22	6.40	4.72	3.74	3.86	3.98	3.43	3.08	3.07	3.02
7	2.74	6.12	4.50	3.79	4.06	4.01	3.43	3.08	3.07	3.02
8	7.91	5.48	4.78	4.49	4.18	3.75	3.43	3.08	3.07	3.02
9	3.28	5.86	4.88	4.22	4.15	3.77	3.43	3.08	3.07	3.02
10	8.68	6.44	4.75	3.44	3.76	3.98	3.43	3.08	3.07	3.02

INDEX OF INDUSTRIAL PRODUCTION - SIC 28 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	4.66	3.97	3.15	3.92		0.52	-0.91	-1.10	-1.10
2	1.00	4.12	4.16	3.15	3.74		-7.79	-10.73	-9.28	-9.28
3	1.00	4.14	4.07	3.15	3.73		-8.56	-10.33	-9.67	-9.67
4	1.00	4.71	4.14	3.15	3.97		-1.06	-0.02	1.47	1.47
5	1.00	4.37	3.86	3.15	3.78		-5.85	-6.37	-7.56	-7.56
6	1.00	4.51	3.92	3.15	3.85		-3.78	-3.68	-4.33	-4.33
7	1.00	4.28	4.04	3.15	3.78		-7.24	-7.91	-7.50	-7.50
8	1.00	5.66	3.97	3.15	4.31		15.05	19.75	19.47	19.47
9	1.00	4.55	3.96	3.15	3.87		-5.95	-2.96	-3.27	-3.27
10	1.00	5.81	3.87	3.15	4.35		24.66	23.16	21.77	21.77

INDEX OF INDUSTRIAL PRODUCTION - SIC 29

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0030	1.1348	1.1896	1.2763	1.3508	1.4427	1.4744	1.4879	1.5014	1.5117
2	1.0000	0.8577	0.9329	0.9246	0.9525	1.0046	1.0972	1.1213	1.1316	1.1418	1.1497
3	1.0000	0.8188	0.9364	0.9620	1.0483	1.1117	1.1672	1.1929	1.2038	1.2147	1.2230
4	1.0000	1.1894	1.3384	1.4017	1.4669	1.5383	1.6299	1.6658	1.6810	1.6962	1.7079
5	1.0000	0.7422	0.8190	0.8591	0.8802	0.9127	0.9591	0.9801	0.9891	0.9981	1.0049
6	1.0000	1.0143	1.1483	1.2093	1.2460	1.2959	1.3792	1.4095	1.4224	1.4353	1.4452
7	1.0000	0.9435	1.1117	1.2029	1.2502	1.3050	1.3849	1.4153	1.4282	1.4412	1.4511
8	1.0000	0.7843	0.9644	1.0398	1.1105	1.1650	1.2376	1.2648	1.2764	1.2879	1.2968
9	1.0000	1.1188	1.2869	1.3485	1.4502	1.5381	1.6312	1.6671	1.6823	1.6976	1.7092
10	1.0000	0.8577	1.0483	1.1542	1.2378	1.3071	1.4129	1.4440	1.4572	1.4704	1.4805

INDEX OF INDUSTRIAL PRODUCTION - SIC 29 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.06	2.50	0.95	1.42	1.14	1.32	0.44	0.18	0.18	0.14
2	-3.02	1.70	-0.18	0.60	1.07	1.78	0.44	0.18	0.18	0.14
3	-3.92	2.72	0.54	1.73	1.18	0.98	0.44	0.18	0.18	0.14
4	3.53	2.39	0.93	0.91	0.96	1.16	0.44	0.18	0.18	0.14
5	-5.79	1.99	0.96	0.49	0.73	1.00	0.44	0.18	0.18	0.14
6	0.28	2.51	1.04	0.60	0.79	1.25	0.44	0.18	0.18	0.14
7	-1.16	3.34	1.59	0.77	0.86	1.19	0.44	0.18	0.18	0.14
8	-4.74	4.22	1.52	1.32	0.96	1.22	0.44	0.18	0.18	0.14
9	2.27	2.84	0.94	1.46	1.18	1.18	0.44	0.18	0.18	0.14
10	-3.02	4.10	1.94	1.41	1.10	1.57	0.44	0.18	0.18	0.14

INDEX OF INDUSTRIAL PRODUCTION - SIC 29 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	1.23	1.23	0.23	0.83		5.85	7.08	8.13	8.13
2	1.00	-0.24	1.42	0.23	0.28		-12.98	-20.09	-17.76	-17.76
3	1.00	0.24	1.03	0.23	0.40		-12.66	-12.05	-12.52	-12.52
4	1.00	1.93	1.06	0.23	1.08		24.83	23.07	22.17	22.17
5	1.00	-0.64	0.86	0.23	0.01		-23.61	-26.15	-28.12	-28.12
6	1.00	1.11	1.02	0.23	0.74		7.10	4.54	3.38	3.38
7	1.00	1.12	1.03	0.23	0.75		3.70	4.89	3.80	3.80
8	1.00	0.53	1.09	0.23	0.52		-10.05	-6.83	-7.24	-7.24
9	1.00	1.88	1.18	0.23	1.08		20.04	21.67	22.26	22.26
10	1.00	1.07	1.33	0.23	0.79		-2.22	3.85	5.90	5.90

INDEX OF INDUSTRIAL PRODUCTION - SIC 30

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.3674	1.8352	2.2314	2.7295	3.3628	4.0692	4.7175	5.3035	5.9532	6.6574
2	1.0000	1.4036	1.9314	2.3900	2.9021	3.6623	4.5813	5.3111	5.9709	6.7024	7.4952
3	1.0000	1.3449	1.8081	2.0360	2.4726	3.0681	3.7727	4.3737	4.9170	5.5194	6.1723
4	1.0000	1.5453	2.2944	2.9307	3.6137	4.5430	5.6161	6.5109	7.3197	8.2164	9.1883
5	1.0000	1.4353	1.9362	2.3537	2.7846	3.4349	4.2013	4.8707	5.4757	6.1465	6.8736
6	1.0000	1.4489	2.0966	2.5758	3.0821	3.7939	4.6620	5.4047	6.0761	6.8204	7.6272
7	1.0000	1.4882	2.0126	2.5293	2.9032	3.3364	3.8313	4.4617	4.9935	5.6052	6.2683
8	1.0000	1.0165	1.4357	1.8042	2.2260	2.7879	3.3733	3.9108	4.3966	4.9352	5.5189
9	1.0000	1.3579	1.8958	2.3682	2.9361	3.7083	4.5425	5.2662	5.9204	6.6457	7.4318
10	1.0000	1.4507	1.9445	2.3147	2.7769	3.4676	4.2978	4.9825	5.6014	6.2877	7.0314

INDEX OF INDUSTRIAL PRODUCTION - SIC 30 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

1980-1985 1985-1990 1990-1995 1995-2000 2000-2005 2005-2010 2010-2015 2015-2020 2020-2025 2025-2030

1	6.46	6.06	3.99	4.11	4.26	3.89	3.00	2.37	2.34	2.26
2	7.02	6.59	4.35	3.96	4.76	4.58	3.00	2.37	2.34	2.26
3	6.11	6.10	2.40	3.96	4.41	4.22	3.00	2.37	2.34	2.26
4	9.09	8.23	5.02	4.28	4.68	4.33	3.00	2.37	2.34	2.26
5	7.19	6.17	3.98	3.42	4.29	4.11	3.00	2.37	2.34	2.26
6	7.10	7.67	4.20	3.65	4.24	4.21	3.00	2.37	2.34	2.26
7	8.28	6.22	4.68	2.80	2.82	2.81	3.00	2.37	2.34	2.26
8	0.33	7.15	4.68	4.29	4.60	3.89	3.00	2.37	2.34	2.26
9	6.31	6.90	4.55	4.39	4.78	4.14	3.00	2.37	2.34	2.26
10	7.72	6.03	3.55	3.71	4.54	4.39	3.00	2.37	2.34	2.26

INDEX OF INDUSTRIAL PRODUCTION - SIC 30 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	5.15	4.07	2.49	3.86		-4.37	-3.98	-5.25	-5.25
2	1.00	5.47	4.67	2.49	4.11		0.64	2.09	6.67	6.67
3	1.00	4.63	4.32	2.49	3.71		-5.78	-13.02	-12.16	-12.16
4	1.00	6.63	4.51	2.49	4.54		19.56	27.12	30.77	30.77
5	1.00	5.25	4.20	2.49	3.93		0.90	-2.04	-2.18	-2.18
6	1.00	5.79	4.23	2.49	4.15		9.25	8.42	8.55	8.55
7	1.00	5.47	2.81	2.49	3.74		4.87	2.13	-10.79	-10.79
8	1.00	4.08	4.24	2.49	3.48		-25.19	-21.69	-21.45	-21.45
9	1.00	5.53	4.46	2.49	4.09		-1.21	3.29	5.77	5.77
10	1.00	5.24	4.46	2.49	3.98		1.32	-2.31	0.07	0.07

INDEX OF INDUSTRIAL PRODUCTION - SIC 31

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	0.8675	0.9541	0.8644	0.8267	0.7621	0.6740	0.6289	0.5789	0.5326	0.4887
2	1.0000	0.8910	0.9707	0.8997	0.8891	0.8461	0.7760	0.7241	0.6666	0.6132	0.5627
3	1.0000	0.8830	0.9881	0.9290	0.9131	0.8592	0.7808	0.7285	0.6707	0.6170	0.5662
4	1.0000	0.7913	0.9254	0.8900	0.8765	0.8256	0.7549	0.7044	0.6485	0.5966	0.5474
5	1.0000	0.9451	1.0292	0.9904	0.9982	0.9648	0.8985	0.8384	0.7718	0.7100	0.6515
6	1.0000	1.0304	1.1883	1.1545	1.1490	1.0970	1.0119	0.9442	0.8691	0.7996	0.7337
7	1.0000	0.9389	1.0925	1.0506	1.0491	1.0031	0.9287	0.8666	0.7977	0.7339	0.6734
8	1.0000	0.7743	0.8052	0.8076	0.7429	0.6483	0.5510	0.5141	0.4733	0.4354	0.3995
9	1.0000	0.8214	0.9891	0.9216	0.9579	0.9648	0.9329	0.8705	0.8013	0.7372	0.6765
10	1.0000	1.8579	1.9152	1.8435	1.7545	1.6075	1.4263	1.3308	1.2251	1.1271	1.0342

INDEX OF INDUSTRIAL PRODUCTION - SIC 31 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	-2.80	1.92	-1.96	-0.89	-1.61	-2.43	-1.38	-1.64	-1.65	-1.70
2	-2.28	1.73	-1.51	-0.23	-0.99	-1.71	-1.38	-1.64	-1.65	-1.70
3	-2.46	2.28	-1.23	-0.34	-1.21	-1.89	-1.38	-1.64	-1.65	-1.70
4	-4.57	3.18	-0.78	-0.30	-1.19	-1.77	-1.38	-1.64	-1.65	-1.70
5	-1.12	1.72	-0.77	0.16	-0.68	-1.41	-1.38	-1.64	-1.65	-1.70
6	0.60	2.89	-0.57	-0.10	-0.92	-1.60	-1.38	-1.64	-1.65	-1.70
7	-1.25	3.08	-0.78	-0.03	-0.89	-1.53	-1.38	-1.64	-1.65	-1.70
8	-4.99	0.79	0.06	-1.66	-2.69	-3.20	-1.38	-1.64	-1.65	-1.70
9	-3.86	3.78	-1.40	0.78	0.14	-0.67	-1.38	-1.64	-1.65	-1.70
10	13.19	0.61	-0.76	-0.99	-1.73	-2.36	-1.38	-1.64	-1.65	-1.70

INDEX OF INDUSTRIAL PRODUCTION - SIC 31 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	-0.95	-2.02	-1.59	-1.42		-12.12	-18.61	-22.84	-22.84
2	1.00	-0.59	-1.35	-1.59	-1.14		-10.60	-12.46	-11.16	-11.16
3	1.00	-0.45	-1.55	-1.59	-1.13		-8.99	-10.10	-10.61	-10.61
4	1.00	-0.66	-1.48	-1.59	-1.20		-14.78	-13.70	-13.57	-13.57
5	1.00	-0.01	-1.05	-1.59	-0.85		-5.21	-1.72	2.86	2.86
6	1.00	0.70	-1.26	-1.59	-0.62		9.44	13.12	15.84	15.84
7	1.00	0.24	-1.21	-1.59	-0.79		0.62	3.28	6.32	6.32
8	1.00	-1.48	-2.94	-1.59	-1.82		-25.84	-26.86	-36.92	-36.92
9	1.00	-0.21	-0.26	-1.59	-0.78		-8.91	-5.69	6.80	6.80
10	1.00	2.85	-2.05	-1.59	0.07		76.39	72.73	63.28	63.28

INDEX OF INDUSTRIAL PRODUCTION - SIC 32

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1450	1.6012	1.8511	2.0866	2.3721	2.6434	2.8613	3.0349	3.2158	3.3991
2	1.0000	1.0322	1.2663	1.3901	1.5336	1.7290	1.9262	2.0850	2.2115	2.3434	2.4769
3	1.0000	1.0243	1.2682	1.3730	1.5296	1.7217	1.9107	2.0682	2.1938	2.3245	2.4570
4	1.0000	1.2218	1.5492	1.7189	1.9614	2.2323	2.4860	2.6909	2.8542	3.0243	3.1967
5	1.0000	1.0491	1.2698	1.4100	1.5753	1.7775	1.9725	2.1350	2.2646	2.3996	2.5364
6	1.0000	1.2726	1.5540	1.8241	2.0606	2.3030	2.5449	2.7546	2.9218	3.0960	3.2724
7	1.0000	1.0183	1.2442	1.3602	1.5146	1.7000	1.8681	2.0220	2.1447	2.2726	2.4021
8	1.0000	1.1115	1.4713	1.6907	1.9230	2.1911	2.4179	2.6172	2.7760	2.9415	3.1092
9	1.0000	1.1820	1.5245	1.7294	1.9907	2.3236	2.6231	2.8393	3.0117	3.1912	3.3731
10	1.0000	1.0429	1.3719	1.5494	1.7631	2.0610	2.3586	2.5529	2.7079	2.8693	3.0328

INDEX OF INDUSTRIAL PRODUCTION - SIC 32 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	2.74	6.94	2.94	2.42	2.60	2.19	1.60	1.19	1.16	1.11
2	0.64	4.17	1.88	1.98	2.43	2.18	1.60	1.19	1.16	1.11
3	0.48	4.36	1.60	2.18	2.39	2.11	1.60	1.19	1.16	1.11
4	4.09	4.86	2.10	2.67	2.62	2.18	1.60	1.19	1.16	1.11
5	0.96	3.89	2.12	2.24	2.45	2.10	1.60	1.19	1.16	1.11
6	4.94	4.08	3.26	2.47	2.25	2.02	1.60	1.19	1.16	1.11
7	0.36	4.09	1.80	2.17	2.34	1.90	1.60	1.19	1.16	1.11
8	2.14	5.77	2.82	2.61	2.64	1.99	1.60	1.19	1.16	1.11
9	3.40	5.22	2.55	2.85	3.14	2.45	1.60	1.19	1.16	1.11
10	0.84	5.64	2.46	2.62	3.17	2.73	1.60	1.19	1.16	1.11

INDEX OF INDUSTRIAL PRODUCTION - SIC 32 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	3.75	2.39	1.27	2.48		13.40	16.32	16.19	16.19
2	1.00	2.16	2.31	1.27	1.83		-10.32	-14.51	-15.34	-15.34
3	1.00	2.15	2.25	1.27	1.81		-10.19	-14.73	-16.02	-16.02
4	1.00	3.43	2.40	1.27	2.35		9.71	9.34	9.27	9.27
5	1.00	2.30	2.27	1.27	1.88		-10.07	-12.19	-13.30	-13.30
6	1.00	3.68	2.13	1.27	2.40		10.05	14.87	11.86	11.86
7	1.00	2.10	2.12	1.27	1.77		-11.89	-15.56	-17.89	-17.89
8	1.00	3.32	2.32	1.27	2.29		4.20	7.20	6.28	6.28
9	1.00	3.50	2.80	1.27	2.46		7.96	10.97	15.30	15.30
10	1.00	2.88	2.95	1.27	2.24		-2.84	-1.71	3.67	3.67

INDEX OF INDUSTRIAL PRODUCTION - SIC 34

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1248	1.4786	1.7080	1.9764	2.2962	2.5719	2.8429	3.0800	3.3337	3.5983
2	1.0000	1.1051	1.4410	1.5683	1.8179	2.1359	2.4276	2.6834	2.9072	3.1466	3.3964
3	1.0000	1.0084	1.2900	1.3880	1.6050	1.8817	2.1304	2.3549	2.5513	2.7614	2.9807
4	1.0000	1.2037	1.6175	1.8366	2.1733	2.5652	2.9128	3.2196	3.4882	3.7754	4.0752
5	1.0000	1.1172	1.3484	1.4673	1.7009	1.9896	2.2406	2.4767	2.6833	2.9042	3.1348
6	1.0000	1.0797	1.5020	1.7373	2.0067	2.3403	2.6585	2.9386	3.1837	3.4459	3.7195
7	1.0000	1.1198	1.4238	1.5949	1.8513	2.1391	2.3846	2.6359	2.8557	3.0909	3.3363
8	1.0000	1.1446	1.5481	1.7875	2.0607	2.3501	2.5801	2.8520	3.0899	3.3443	3.6098
9	1.0000	1.1556	1.5814	1.8331	2.1780	2.5894	2.9370	3.2464	3.5171	3.8068	4.1090
10	1.0000	1.0676	1.3640	1.5720	1.7979	2.0988	2.3815	2.6324	2.8519	3.0868	3.3319

INDEX OF INDUSTRIAL PRODUCTION - SIC 34 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	2.38	5.62	2.93	2.96	3.04	2.29	2.02	1.62	1.60	1.54
2	2.02	5.45	1.71	3.00	3.28	2.59	2.02	1.62	1.60	1.54
3	0.17	5.05	1.48	2.95	3.23	2.51	2.02	1.62	1.60	1.54
4	3.8	6.09	2.57	3.42	3.37	2.57	2.02	1.62	1.60	1.54
5	2.24	3.83	1.70	3.00	3.19	2.40	2.02	1.62	1.60	1.54
6	1.55	6.83	2.95	2.93	3.12	2.58	2.02	1.62	1.60	1.54
7	2.29	4.92	2.30	3.03	2.93	2.20	2.02	1.62	1.60	1.54
8	2.74	6.23	2.92	2.89	2.66	1.89	2.02	1.62	1.60	1.54
9	2.94	6.47	3.00	3.51	3.52	2.55	2.02	1.62	1.60	1.54
10	1.32	5.02	2.88	2.72	3.14	2.56	2.02	1.62	1.60	1.54

INDEX OF INDUSTRIAL PRODUCTION - SIC 34 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	3.47	2.67	1.69	2.59		1.31	3.11	1.96	1.96
2	1.00	3.03	2.93	1.69	2.48		-1.27	-5.16	-3.76	-3.76
3	1.00	2.39	2.87	1.69	2.21		-11.61	-16.27	-15.54	-15.54
4	1.00	3.96	2.97	1.69	2.85		10.83	13.38	15.47	15.47
5	1.00	2.69	2.79	1.69	2.31		-7.61	-11.26	-11.17	-11.17
6	1.00	3.54	2.85	1.69	2.66		2.91	4.69	5.39	5.39
7	1.00	3.13	2.56	1.69	2.44		-2.44	-3.42	-5.47	-5.47
8	1.00	3.68	2.27	1.69	2.60		6.07	7.51	2.29	2.29
9	1.00	3.97	3.03	1.69	2.87		8.35	13.63	16.43	16.43
10	1.00	2.98	2.85	1.69	2.44		-6.54	-6.20	-5.59	-5.59

INDEX OF INDUSTRIAL PRODUCTION - SIC 35

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2781	1.9151	2.5595	3.1143	3.6727	4.3950	4.8770	5.2038	5.5424	5.8744
2	1.0000	1.2756	1.8100	2.2043	2.6156	3.0695	3.6580	4.0592	4.3312	4.6130	4.8894
3	1.0000	1.1641	1.6863	2.0331	2.4166	2.8298	3.3580	3.7262	3.9759	4.2346	4.4883
4	1.0000	1.5279	2.3474	2.9606	3.5641	4.2008	5.0098	5.5591	5.9318	6.3177	6.6961
5	1.0000	1.1552	1.6333	1.9923	2.3319	2.7029	3.1826	3.5315	3.7683	4.0134	4.2538
6	1.0000	1.2244	1.9370	2.4287	2.9215	3.4508	4.1401	4.5940	4.9019	5.2209	5.5336
7	1.0000	1.1324	1.5960	1.9172	2.2252	2.5678	3.0077	3.3375	3.5612	3.7929	4.0202
8	1.0000	1.6690	2.6348	3.4303	4.3875	5.4801	6.7825	7.5262	8.0307	8.5532	9.0656
9	1.0000	1.4577	2.2523	2.9216	3.5128	4.1165	4.8624	5.3956	5.7572	6.1318	6.4991
10	1.0000	1.3931	1.9045	2.4367	2.9574	3.4910	4.1824	4.6410	4.9521	5.2743	5.5902

INDEX OF INDUSTRIAL PRODUCTION - SIC 35 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

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1980-1985 1985-1990 1990-1995 1995-2000 2000-2005 2005-2010 2010-2015 2015-2020 2020-2025 2025-2030

1	5.03	8.42	5.97	4.00	3.35	3.66	2.10	1.31	1.27	1.17
2	4.99	7.25	4.02	3.48	3.25	3.57	2.10	1.31	1.27	1.17
3	3.09	7.69	3.81	3.52	3.21	3.48	2.10	1.31	1.27	1.17
4	8.85	8.97	4.75	3.78	3.34	3.59	2.10	1.31	1.27	1.17
5	2.93	7.17	4.05	3.20	3.00	3.32	2.10	1.31	1.27	1.17
6	4.13	9.61	4.63	3.76	3.39	3.71	2.10	1.31	1.27	1.17
7	2.52	7.10	3.73	3.02	2.91	3.21	2.10	1.31	1.27	1.17
8	10.79	9.56	5.42	5.05	4.55	4.36	2.10	1.31	1.27	1.17
9	7.83	9.09	5.34	3.75	3.22	3.39	2.10	1.31	1.27	1.17
10	6.86	6.45	5.05	3.95	3.37	3.68	2.10	1.31	1.27	1.17

INDEX OF INDUSTRIAL PRODUCTION - SIC 35 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	5.84	3.50	1.46	3.60	-	-2.87	3.65	3.22	3.22
2	1.00	4.92	3.41	1.46	3.23	-	-8.20	-12.95	-14.09	-14.09
3	1.00	4.51	3.34	1.46	3.05	-	-14.47	-19.57	-21.14	-21.14
4	1.00	6.56	3.46	1.46	3.88	-	19.06	18.62	17.66	17.66
5	1.00	4.32	3.16	1.46	2.94	-	-17.16	-22.39	-25.25	-25.25
6	1.00	5.51	3.55	1.46	3.48	-	-1.76	-2.77	-2.77	-2.77
7	1.00	4.08	3.06	1.46	2.82	-	-19.05	-25.94	-29.36	-29.36
8	1.00	7.67	4.45	1.46	4.51	-	33.63	46.02	59.29	59.29
9	1.00	6.48	3.30	1.46	3.81	-	14.23	16.91	14.20	14.20
10	1.00	5.57	3.53	1.46	3.50	-	-3.41	-1.57	-1.77	-1.77

INDEX OF INDUSTRIAL PRODUCTION - SIC 36

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.5057	2.2145	2.7087	3.2885	3.9477	4.6636	5.1490	5.4935	5.8517	6.2069
2	1.0000	1.3449	1.7664	2.0820	2.4515	2.8558	3.3178	3.6631	3.9081	4.1630	4.4157
3	1.0000	1.3460	1.7781	2.0887	2.4815	2.9333	3.3865	3.7389	3.9890	4.2992	4.5071
4	1.0000	1.5198	2.1774	2.6438	3.1891	3.7404	4.3612	4.8151	5.1372	5.4723	5.8045
5	1.0000	1.2293	1.5569	1.7289	1.9758	2.2548	2.5567	2.8228	3.0116	3.2080	3.4028
6	1.0000	1.3927	1.9896	2.4010	2.9386	3.4938	4.0852	4.5103	4.8121	5.1259	5.4371
7	1.0000	1.1943	1.6188	1.9129	2.2295	2.6105	3.0354	3.3513	3.5755	3.8087	4.0399
8	1.0000	1.6996	2.4037	2.9867	3.7827	4.7018	5.7060	6.2998	6.7213	7.1597	7.5943
9	1.0000	1.5697	2.2112	2.7207	3.3092	3.9324	4.5848	5.0619	5.4006	5.7528	6.1020
10	1.0000	1.5469	2.2182	2.7000	3.3477	3.9942	4.7491	5.2433	5.5941	5.9589	6.3207

INDEX OF INDUSTRIAL PRODUCTION - SIC 36 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	8.53	8.02	4.11	3.96	3.72	3.39	2.00	1.30	1.27	1.19
2	6.11	5.60	3.34	3.32	3.32	2.83	2.00	1.30	1.27	1.19
3	6.12	5.73	3.27	3.51	3.40	2.91	2.00	1.30	1.27	1.19
4	8.73	7.46	3.96	3.82	3.24	3.12	2.00	1.30	1.27	1.19
5	4.22	4.84	2.12	2.71	2.68	2.54	2.00	1.30	1.27	1.19
6	6.85	7.40	3.83	4.12	3.52	3.18	2.00	1.30	1.27	1.19
7	3.62	6.27	3.39	3.11	3.21	3.06	2.00	1.30	1.27	1.19
8	11.19	7.18	4.44	4.84	4.45	3.95	2.00	1.30	1.27	1.19
9	9.44	7.09	4.23	3.99	3.51	3.12	2.00	1.30	1.27	1.19
10	9.12	7.47	4.01	4.39	3.59	3.52	2.00	1.30	1.27	1.19

INDEX OF INDUSTRIAL PRODUCTION - SIC 36 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	6.13	3.56	1.44	3.72		11.09	13.42	15.30	15.30
2	1.00	4.59	3.07	1.44	3.01		-11.39	-15.45	-17.97	-17.97
3	1.00	4.65	3.16	1.44	3.06		-10.81	-14.41	-16.27	-16.27
4	1.00	5.97	3.18	1.44	3.58		9.22	9.99	7.83	7.83
5	1.00	3.46	2.61	1.44	2.48		-21.90	-31.85	-36.79	-36.79
6	1.00	5.54	3.35	1.44	3.44		-0.19	1.35	1.00	1.00
7	1.00	4.09	3.13	1.44	2.83		-18.79	-23.10	-24.95	-24.95
8	1.00	6.88	4.20	1.44	4.14		20.58	30.46	41.08	41.08
9	1.00	6.17	3.31	1.44	3.68		10.92	14.13	13.36	13.36
10	1.00	6.23	3.56	1.44	3.76		11.27	15.46	17.42	17.42

INDEX OF INDUSTRIAL PRODUCTION - SIC 37

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2310	1.7074	2.1291	2.5220	2.9063	3.3310	3.6080	3.7851	3.9662	4.1393
2	1.0000	1.1142	1.5132	1.7108	1.9428	2.2552	2.5835	2.7983	2.9357	3.0761	3.2104
3	1.0000	1.1918	1.5620	1.7249	2.0050	2.3518	2.7066	2.9317	3.0756	3.2227	3.3633
4	1.0000	1.4966	2.0518	2.3773	2.7862	3.2903	3.7840	4.0987	4.2998	4.5055	4.7022
5	1.0000	1.3056	1.6123	1.7929	2.0364	2.3659	2.6652	2.8868	3.0285	3.1734	3.3119
6	1.0000	1.1850	1.6469	1.8170	2.1360	2.5102	2.9852	3.2334	3.3921	3.5544	3.7095
7	1.0000	1.3715	1.8023	2.0540	2.3670	2.7961	3.1926	3.4581	3.6278	3.8014	3.9673
8	1.0000	1.7262	2.3490	2.7059	3.1565	3.7230	4.2444	4.5973	4.8230	5.0536	5.2742
9	1.0000	1.3275	1.8244	2.0973	2.4466	2.8856	3.2980	3.5722	3.7476	3.9268	4.0982
10	1.0000	1.0831	1.5413	1.9246	2.3835	2.9390	3.4611	3.7489	3.9329	4.1211	4.3010

INDEX OF INDUSTRIAL PRODUCTION - SIC 37 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	4.24	6.76	4.51	3.44	2.88	2.77	1.61	0.96	0.94	0.86
2	2.9	6.31	2.48	2.58	3.03	2.76	1.61	0.96	0.94	0.86
3	3.1	5.56	2.00	3.05	3.24	2.85	1.61	0.96	0.94	0.86
4	8.40	6.51	2.99	3.23	3.38	2.84	1.61	0.96	0.94	0.86
5	5.48	4.31	2.15	2.58	3.04	2.41	1.61	0.96	0.94	0.86
6	3.45	6.80	1.99	3.29	3.53	3.28	1.61	0.96	0.94	0.86
7	6.52	5.61	2.65	2.88	3.39	2.69	1.61	0.96	0.94	0.86
8	11.54	6.36	2.87	3.13	3.36	2.66	1.61	0.96	0.94	0.86
9	5.83	6.57	2.83	3.13	3.36	2.71	1.61	0.96	0.94	0.86
10	1.61	7.31	4.54	4.37	4.28	3.32	1.61	0.96	0.94	0.86

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INDEX OF INDUSTRIAL PRODUCTION - SIC 37 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	4.73	2.82	1.09	2.88		-3.04	6.05	3.28	3.28
2	1.00	3.38	2.89	1.09	2.36		-14.07	-18.31	-19.90	-19.90
3	1.00	3.54	3.05	1.09	2.46		-11.30	-15.69	-16.08	-16.08
4	1.00	5.26	3.11	1.09	3.14		16.51	17.16	17.33	17.33
5	1.00	3.62	2.73	1.09	2.42		-8.45	-14.37	-17.36	-17.36
6	1.00	3.87	3.40	1.09	2.66		-6.48	-10.18	-7.44	-7.44
7	1.00	4.40	3.04	1.09	2.79		2.34	-0.47	-1.01	-1.01
8	1.00	5.92	3.01	1.09	3.38		33.38	32.73	31.60	31.60
9	1.00	4.58	3.03	1.09	2.86		3.60	2.88	2.26	2.26
10	1.00	4.44	3.80	1.09	2.96		-12.48	0.22	7.32	7.32

INDEX OF INDUSTRIAL PRODUCTION - SIC 38

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1156	1.7153	2.2223	2.6936	3.2054	3.8702	4.4514	4.9901	5.5872	6.2361
2	1.0000	1.0812	1.5060	1.8372	2.1757	2.5739	3.0756	3.5374	3.9655	4.4400	4.9556
3	1.0000	0.9923	1.4263	1.7390	2.0752	2.4479	2.9164	3.3543	3.7602	4.2102	4.6992
4	1.0000	1.1783	1.8362	2.3751	2.8777	3.4587	4.2011	4.8320	5.4167	6.0618	6.7692
5	1.0000	1.0494	1.4533	1.7376	2.0165	2.3845	2.8473	3.2749	3.6711	4.1104	4.5878
6	1.0000	1.1441	1.7023	2.1406	2.5670	3.0975	3.7647	4.3300	4.8540	5.4348	6.0660
7	1.0000	1.5121	2.3207	3.0087	3.5725	4.2858	5.1819	5.9600	6.6812	7.4807	8.3495
8	1.0000	1.1923	1.8657	2.4090	2.9387	3.5464	4.3155	4.9636	5.5642	6.2300	6.9536
9	1.0000	1.2520	1.9467	2.5092	3.0556	3.6793	4.4697	5.1409	5.7630	6.4526	7.2020
10	1.0000	1.0189	1.5747	2.0685	2.5733	3.1569	3.8964	4.4815	5.0238	5.6249	6.2782

INDEX OF INDUSTRIAL PRODUCTION - SIC 38 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	2.21	8.99	5.32	3.92	3.54	3.84	2.84	2.31	2.29	2.22
2	1.57	6.85	4.06	3.44	3.42	3.63	2.84	2.31	2.29	2.22
3	-0.15	7.53	4.04	3.60	3.36	3.56	2.84	2.31	2.29	2.22
4	3.34	9.28	5.28	3.91	3.75	3.97	2.84	2.31	2.29	2.22
5	0.97	6.73	3.64	3.02	3.41	3.61	2.84	2.31	2.29	2.22
6	2.73	8.27	4.69	3.70	3.83	3.98	2.84	2.31	2.29	2.22
7	8.62	8.95	5.33	3.50	3.71	3.87	2.84	2.31	2.29	2.22
8	3.58	9.37	5.24	4.05	3.83	4.00	2.84	2.31	2.29	2.22
9	4.60	9.23	5.21	4.02	3.78	3.97	2.84	2.31	2.29	2.22
10	0.38	9.10	5.61	4.46	4.17	4.30	2.84	2.31	2.29	2.22

INDEX OF INDUSTRIAL PRODUCTION - SIC 38 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030	1990	2000	2010	2030
1	1.00	5.08	3.69	2.41	3.73	-1.12	1.47	0.42	0.42
2	1.00	3.96	3.52	2.41	3.25	-13.19	-18.04	-20.20	-20.20
3	1.00	3.72	3.46	2.41	3.14	-17.78	-21.82	-24.33	-24.33
4	1.00	5.43	3.86	2.41	3.90	5.85	8.41	9.01	9.01
5	1.00	3.57	3.51	2.41	3.09	-16.22	-24.04	-26.12	-26.12
6	1.00	4.83	3.90	2.41	3.67	-1.87	-3.30	-2.31	-2.31
7	1.00	6.57	3.79	2.41	4.34	33.78	34.58	34.46	34.46
8	1.00	5.54	3.92	2.41	3.95	7.55	10.70	11.98	11.98
9	1.00	5.74	3.88	2.41	4.03	12.22	15.11	15.98	15.98
10	1.00	4.84	4.24	2.41	3.74	-9.22	-3.06	1.10	1.10

INDEX OF INDUSTRIAL PRODUCTION - SIC 39

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	0.9964	1.2393	1.3803	1.5015	1.6401	1.7916	1.9618	2.1105	2.2689	2.4343
2	1.0000	1.0482	1.3347	1.5377	1.7107	1.9211	2.1509	2.3552	2.5339	2.7240	2.9225
3	1.0000	1.0708	1.3266	1.4176	1.6116	1.8142	2.0236	2.2158	2.3838	2.5627	2.7495
4	1.0000	1.2212	1.6489	1.9310	2.1737	2.4376	2.7246	2.9834	3.2097	3.4505	3.7020
5	1.0000	1.0204	1.3199	1.5472	1.7726	2.0313	2.3133	2.5330	2.7251	2.9296	3.1431
6	1.0000	1.0078	1.3508	1.5863	1.8578	2.1916	2.5694	2.8135	3.0268	3.2540	3.4911
7	1.0000	1.0505	1.3704	1.5695	1.7701	2.0100	2.2626	2.4775	2.6654	2.8654	3.0742
8	1.0000	1.2469	1.7009	2.0238	2.2683	2.5372	2.8352	3.1045	3.3399	3.5905	3.8522
9	1.0000	1.1164	1.4635	1.7023	1.9198	2.1821	2.4722	2.7070	2.9123	3.1308	3.3590
10	1.0000	1.4967	1.9872	2.3787	2.7577	3.1854	3.6479	3.9944	4.2973	4.6198	4.9565

INDEX OF INDUSTRIAL PRODUCTION - SIC 39 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

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	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	-0.07	4.46	2.18	1.70	1.78	1.78	1.83	1.47	1.46	1.42
2	0.95	4.95	2.87	2.16	2.35	2.29	1.83	1.47	1.46	1.42
3	1.38	4.38	1.34	2.60	2.40	2.21	1.83	1.47	1.46	1.42
4	4.08	6.19	3.21	2.40	2.32	2.25	1.83	1.47	1.46	1.42
5	0.40	5.28	3.23	2.76	2.76	2.63	1.83	1.47	1.46	1.42
6	0.16	6.03	3.27	3.21	3.36	3.23	1.83	1.47	1.46	1.42
7	0.99	5.46	2.75	2.43	2.57	2.40	1.83	1.47	1.46	1.42
8	4.51	6.41	3.54	2.31	2.27	2.25	1.83	1.47	1.46	1.42
9	2.23	5.56	3.07	2.43	2.59	2.53	1.83	1.47	1.46	1.42
10	8.40	5.83	3.66	3.00	2.93	2.75	1.83	1.47	1.46	1.42

INDEX OF INDUSTRIAL PRODUCTION - SIC 39 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.05	1.78	1.54	1.80		-15.93	-22.38	-27.73	-27.73
2	1.00	2.72	2.32	1.54	2.17		-9.47	-11.56	-13.24	-13.24
3	1.00	2.41	2.30	1.54	2.04		-10.01	-16.69	-18.38	-18.38
4	1.00	3.96	2.28	1.54	2.65		11.85	12.37	9.90	9.90
5	1.00	2.90	2.70	1.54	2.32		-10.47	-8.36	-6.69	-6.69
6	1.00	3.15	3.30	1.54	2.53		-8.37	-3.96	3.64	3.64
7	1.00	2.90	2.49	1.54	2.27		-7.06	-8.49	-8.73	-8.73
8	1.00	4.18	2.26	1.54	2.73		15.38	17.26	14.36	14.36
9	1.00	3.31	2.56	1.54	2.45		-0.72	-0.75	-0.28	-0.28
10	1.00	5.20	2.84	1.54	3.25		34.80	42.56	47.14	47.14

INDEX OF INDUSTRIAL PRODUCTION - SIC 1

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1022	1.2025	1.3041	1.3485	1.4025	1.4652	1.5477	1.6226	1.6885	1.7438
2	1.0000	1.1538	1.3133	1.4516	1.5763	1.7055	1.8446	1.9485	2.0428	2.1257	2.1953
3	1.0000	1.0571	1.1537	1.2207	1.2786	1.3448	1.4181	1.4980	1.5705	1.6343	1.6878
4	1.0000	1.1023	1.2036	1.2936	1.3864	1.4920	1.6021	1.6923	1.7742	1.8462	1.9067
5	1.0000	1.1005	1.2048	1.3010	1.3930	1.4844	1.5767	1.6655	1.7461	1.8170	1.8765
6	1.0000	1.1266	1.1834	1.2800	1.3325	1.4021	1.4787	1.5620	1.6376	1.7041	1.7599
7	1.0000	1.0754	1.1489	1.2243	1.2708	1.3179	1.3725	1.4498	1.5199	1.5817	1.6334
8	1.0000	1.1163	1.1887	1.2799	1.3299	1.3836	1.4416	1.5228	1.5965	1.6614	1.7157
9	1.0000	1.1509	1.3237	1.4962	1.6533	1.8178	1.9786	2.0900	2.1912	2.2801	2.3548
10	1.0000	1.1045	1.2116	1.3813	1.5046	1.6138	1.7366	1.8344	1.9232	2.0012	2.0667

INDEX OF INDUSTRIAL PRODUCTION - SIC 1 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.17	1.76	1.64	0.67	0.79	0.88	1.10	0.95	0.80	0.65
2	2.90	2.62	2.02	1.66	1.59	1.58	1.10	0.95	0.80	0.65
3	1.31	1.57	1.14	0.93	1.01	1.07	1.10	0.95	0.80	0.65
4	1.97	1.77	1.45	1.40	1.48	1.43	1.10	0.95	0.80	0.65
5	1.93	1.83	1.55	1.38	1.28	1.21	1.10	0.95	0.80	0.65
6	2.41	0.99	1.58	0.81	1.02	1.07	1.10	0.95	0.80	0.65
7	1.46	1.33	1.28	0.75	0.73	0.81	1.10	0.95	0.80	0.65
8	2.22	1.26	1.49	0.77	0.79	0.83	1.10	0.95	0.80	0.65
9	2.85	2.84	2.48	2.02	1.91	1.71	1.10	0.95	0.80	0.65
10	2.01	1.87	2.66	1.73	1.41	1.48	1.10	0.95	0.80	0.65

INDEX OF INDUSTRIAL PRODUCTION - SIC 1 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	1.51	0.83	0.87	1.12	-	-0.90	-4.18	-7.93	-7.93
2	1.00	2.30	1.58	0.87	1.59	-	8.23	12.00	15.91	15.91
3	1.00	1.24	1.04	0.87	1.05	-	-4.92	-9.15	-10.89	-10.89
4	1.00	1.65	1.46	0.87	1.30	-	-0.81	-1.49	0.67	0.67
5	1.00	1.67	1.25	0.87	1.27	-	-0.71	-1.02	-0.93	-0.93
6	1.00	1.45	1.05	0.87	1.14	-	-2.47	-5.32	-7.08	-7.08
7	1.00	1.21	0.77	0.87	0.99	-	-5.32	-9.70	-13.76	-13.76
8	1.00	1.44	0.81	0.87	1.09	-	-2.04	-5.50	-9.41	-9.41
9	1.00	2.55	1.81	0.87	1.73	-	9.09	17.47	24.32	24.32
10	1.00	2.06	1.44	0.87	1.46	-	-0.15	6.91	9.12	9.12

INDEX OF INDUSTRIAL PRODUCTION - SIC 2

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1022	1.2025	1.3041	1.3485	1.4025	1.4652	1.5477	1.6226	1.6885	1.7438
2	1.0000	1.1538	1.3133	1.4516	1.5763	1.7055	1.8446	1.9485	2.0428	2.1257	2.1953
3	1.0000	1.0671	1.1537	1.2207	1.2786	1.3448	1.4181	1.4980	1.5705	1.6343	1.6878
4	1.0000	1.1023	1.2036	1.2936	1.3864	1.4920	1.6021	1.6923	1.7742	1.8462	1.9067
5	1.0000	1.1005	1.2048	1.3010	1.3930	1.4844	1.5767	1.6655	1.7461	1.8170	1.8765
6	1.0000	1.1266	1.1834	1.2800	1.3325	1.4021	1.4787	1.5620	1.6376	1.7041	1.7599
7	1.0000	1.0754	1.1489	1.2243	1.2708	1.3179	1.3725	1.4498	1.5199	1.5817	1.6334
8	1.0000	1.1163	1.1887	1.2799	1.3299	1.3834	1.4416	1.5228	1.5965	1.6614	1.7157
9	1.0000	1.1509	1.3237	1.4962	1.6533	1.8178	1.9786	2.0900	2.1912	2.2801	2.3548
10	1.0000	1.1045	1.2116	1.3813	1.5046	1.6138	1.7366	1.8344	1.9232	2.0012	2.0667

INDEX OF INDUSTRIAL PRODUCTION - SIC 2 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.97	1.76	1.64	0.67	0.79	0.88	1.10	0.95	0.80	0.65
2	2.90	2.62	2.02	1.66	1.59	1.58	1.10	0.95	0.80	0.65
3	1.31	1.57	1.14	0.93	1.01	1.07	1.10	0.95	0.80	0.65
4	1.97	1.77	1.45	1.40	1.48	1.43	1.10	0.95	0.80	0.65
5	1.93	1.83	1.55	1.38	1.28	1.21	1.10	0.95	0.80	0.65
6	2.41	0.99	1.58	0.81	1.02	1.07	1.10	0.95	0.80	0.65
7	1.46	1.33	1.28	0.75	0.73	0.81	1.10	0.95	0.80	0.65
8	2.22	1.26	1.49	0.77	0.79	0.83	1.10	0.95	0.80	0.65
9	2.85	2.84	2.48	2.02	1.91	1.71	1.10	0.95	0.80	0.65
10	2.01	1.87	2.66	1.73	1.41	1.48	1.10	0.95	0.80	0.65

INDEX OF INDUSTRIAL PRODUCTION - SIC 2 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	1.51	0.83	0.87	1.12	-	-0.90	-4.18	-7.93	-7.93
2	1.00	2.30	1.58	0.87	1.59	-	8.23	12.00	15.91	15.91
3	1.00	1.24	1.04	0.87	1.05	-	-4.92	-9.15	-10.89	-10.89
4	1.00	1.65	1.46	0.87	1.30	-	-0.81	-1.49	0.67	0.67
5	1.00	1.67	1.25	0.87	1.27	-	-0.71	-1.02	-0.93	-0.93
6	1.00	1.45	1.05	0.87	1.14	-	-2.47	-5.32	-7.08	-7.08
7	1.00	1.21	0.77	0.87	0.99	-	-5.32	-9.70	-13.76	-13.76
8	1.00	1.44	0.81	0.87	1.09	-	-2.04	-5.50	-9.41	-9.41
9	1.00	2.55	1.81	0.87	1.73	-	9.09	17.47	24.32	24.32
10	1.00	2.06	1.44	0.87	1.46	-	-0.15	6.91	9.12	9.12

INDEX OF INDUSTRIAL PRODUCTION - SIC 10A REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0210	1.0470	1.1146	1.1355	1.1460	1.2020	1.3509	1.5039	1.6582	1.8105
2	1.0000	1.5387	1.8116	2.3816	2.6568	2.9979	3.5915	4.0365	4.4937	4.9545	5.4096
3	1.0000	1.0213	1.3008	1.4916	1.6448	1.8218	2.0385	2.2911	2.5506	2.8121	3.0705
4	1.0000	1.0808	1.3804	1.6169	1.8369	2.0712	2.3539	2.6456	2.9653	3.2473	3.5456
5	1.0000	1.1434	1.3846	1.5457	1.6687	1.8330	2.0321	2.2839	2.5426	2.8033	3.0608
6	1.0000	1.1640	1.2569	1.4259	1.5718	1.7666	2.0088	2.2577	2.5134	2.7711	3.0257
7	1.0000	1.4221	1.6429	1.9192	2.1212	2.3917	2.7380	3.0773	3.4258	3.7772	4.1241
8	1.0000	1.1432	1.4190	1.6904	1.9172	2.1798	2.5060	2.8166	3.1356	3.4571	3.7747
9	1.0000	1.3050	1.4419	1.5891	1.6806	1.8073	1.9878	2.2341	2.4871	2.7422	2.9941
10	1.0000	1.1895	1.3616	1.6430	1.8418	2.1093	2.4110	2.7098	3.0167	3.3260	3.6315

INDEX OF INDUSTRIAL PRODUCTION - SIC 10A - AVERAGE ANNUAL GROWTH RATES REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.42	0.50	1.26	0.37	0.18	0.96	2.36	2.17	1.97	1.77
2	9.00	3.32	5.62	2.21	2.45	3.68	2.36	2.17	1.97	1.77
3	0.42	4.96	2.78	1.97	2.07	2.27	2.36	2.17	1.97	1.77
4	1.57	5.02	3.21	2.58	2.43	2.59	2.36	2.17	1.97	1.77
5	2.72	3.90	2.23	1.54	1.90	2.08	2.36	2.17	1.97	1.77
6	3.08	1.55	2.55	1.97	2.36	2.60	2.36	2.17	1.97	1.77
7	7.30	2.93	3.16	2.02	2.43	2.74	2.36	2.17	1.97	1.77
8	2.71	4.42	3.56	2.55	2.60	2.83	2.36	2.17	1.97	1.77
9	5.47	2.01	1.97	1.13	1.46	1.92	2.36	2.17	1.97	1.77
10	3.53	2.74	3.83	2.31	2.75	2.71	2.36	2.17	1.97	1.77

INDEX OF INDUSTRIAL PRODUCTION - SIC 10A - SUMMARY TABLE REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	0.64	0.57	2.07	1.19	-25.46	-37.18	-47.44	-47.44	
2	1.00	5.01	3.06	2.07	3.43	28.97	46.99	57.04	57.04	
3	1.00	2.52	2.17	2.07	2.27	-7.39	-9.00	-10.86	-10.86	
4	1.00	3.09	2.51	2.07	2.56	-1.73	1.63	2.93	2.93	
5	1.00	2.59	1.99	2.07	2.26	-1.42	-7.68	-11.16	-11.16	
6	1.00	2.29	2.48	2.07	2.24	-10.51	-13.04	-12.16	-12.16	
7	1.00	3.83	2.59	2.07	2.87	16.97	17.35	19.72	19.72	
8	1.00	3.31	2.71	2.07	2.69	1.03	6.07	9.58	9.58	
9	1.00	2.63	1.69	2.07	2.22	2.62	-7.02	-13.08	-13.08	
10	1.00	3.10	2.73	2.07	2.61	-3.07	1.90	5.42	5.42	

INDEX OF INDUSTRIAL PRODUCTION - SIC 11A

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0729	1.1125	1.0921	1.0065	0.9616	0.9522	1.0181	1.0851	1.1533	1.2229
2	1.0000	1.1674	1.2500	1.4158	1.3781	1.3983	1.5072	1.6115	1.7176	1.8256	1.9358
3	1.0000	0.6740	0.6563	0.6242	0.6099	0.5960	0.5933	0.6344	0.6761	0.7186	0.7620
4	1.0000	0.8858	0.9366	0.9226	0.9045	0.8986	0.9146	0.9779	1.0423	1.1078	1.1747
5	1.0000	0.7978	0.8982	0.8879	0.8602	0.8432	0.8404	0.8986	0.9577	1.0180	1.0794
6	1.0000	0.9510	1.1182	1.2922	1.4341	1.5897	1.7436	1.8644	1.9870	2.1120	2.2395
7	1.0000	0.9162	0.9670	0.9308	0.9000	0.9052	0.9327	0.9973	1.0629	1.1298	1.1980
8	1.0000	0.7727	0.8281	0.8489	0.8313	0.8395	0.8604	0.9200	0.9806	1.0422	1.1051
9	1.0000	0.9163	1.0025	1.0870	1.1106	1.1557	1.2238	1.3086	1.3947	1.4824	1.5719
10	1.0000	0.8990	0.9575	0.9905	0.9843	0.9801	0.9884	1.0568	1.1263	1.1972	1.2694

INDEX OF INDUSTRIAL PRODUCTION - SIC 11A - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980-19'5	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.42	0.73	-0.37	-1.62	-0.91	-0.20	1.35	1.28	1.23	1.18
2	3.14	1.38	2.52	-0.54	0.29	1.51	1.35	1.28	1.23	1.18
3	-7.59	-0.53	-1.00	-0.46	-0.46	-0.09	1.35	1.28	1.23	1.18
4	-2.40	1.12	-0.30	-0.40	-0.13	0.35	1.35	1.28	1.23	1.18
5	-4.42	2.40	-0.23	-0.63	-0.40	-0.07	1.35	1.28	1.23	1.18
6	-1.00	3.29	2.93	2.11	2.08	1.87	1.35	1.28	1.23	1.18
7	-1.74	1.09	-0.76	-0.67	0.12	0.60	1.35	1.28	1.23	1.18
8	-5.03	1.40	0.50	-0.42	0.20	0.50	1.35	1.28	1.23	1.18
9	-1.73	1.81	1.63	0.43	0.80	1.15	1.35	1.28	1.23	1.18
10	-2.11	1.27	0.68	-0.12	-0.09	0.17	1.35	1.28	1.23	1.18

INDEX OF INDUSTRIAL PRODUCTION - SIC 11A - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	0.03	-0.55	1.26	0.40		14.38	0.46	-9.80	-9.80
2	1.00	1.62	0.90	1.26	1.33		28.51	37.54	42.77	42.77
3	1.00	-2.44	-0.28	1.26	-0.54		-32.52	-39.12	-43.80	-43.80
4	1.00	-0.50	0.11	1.26	0.32		-3.71	-9.73	-13.36	-13.36
5	1.00	-0.75	-0.23	1.26	0.15		-7.65	-14.15	-20.39	-20.39
6	1.00	1.82	1.97	1.26	1.63		14.96	43.13	65.17	65.17
7	1.00	-0.53	0.36	1.26	0.36		-0.59	-10.18	-11.64	-11.64
8	1.00	-0.92	0.35	1.26	0.20		-14.86	-17.03	-18.49	-18.49
9	1.00	0.53	0.98	1.26	0.91		3.06	10.85	15.93	15.93
10	1.00	-0.08	0.04	1.26	0.48		-1.56	-1.76	-6.38	-6.38

INDEX OF INDUSTRIAL PRODUCTION - SIC 15 REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1303	1.3465	1.4676	1.5256	1.6333	1.7646	1.8805	1.9780	2.0539	2.1071
2	1.0000	1.1972	1.4965	1.5080	1.6217	1.7381	1.8373	1.9580	2.0594	2.1385	2.1939
3	1.0000	0.9465	1.0762	1.1069	1.2058	1.3084	1.4028	1.4949	1.5724	1.6327	1.6750
4	1.0000	1.0905	1.1142	1.1113	1.2473	1.3859	1.5224	1.6224	1.7065	1.7720	1.8179
5	1.0000	0.9369	1.0623	1.0363	1.0916	1.1633	1.1680	1.2497	1.3092	1.3595	1.3947
6	1.0000	0.8964	1.0551	1.2248	1.2664	1.3951	1.5734	1.6767	1.7636	1.8313	1.8787
7	1.0000	0.9615	1.1022	1.1360	1.2087	1.3582	1.5154	1.6149	1.6986	1.7638	1.8094
8	1.0000	1.1043	1.2137	1.2593	1.3608	1.4788	1.6369	1.7495	1.8348	1.9053	1.9546
9	1.0000	1.0975	1.1989	1.3721	1.4892	1.6320	1.7668	1.8829	1.9804	2.0564	2.1097
10	1.0000	0.8017	0.9074	1.0084	1.0424	1.1344	1.2251	1.3056	1.3732	1.4259	1.4629

INDEX OF INDUSTRIAL PRODUCTION - SIC 15 - AVERAGE ANNUAL GROWTH RATES REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	2.48	3.56	1.74	0.78	1.37	1.56	1.28	1.02	0.76	0.51
2	3.67	4.56	0.15	1.46	1.40	1.12	1.28	1.02	0.76	0.51
3	-1.09	2.60	0.56	1.73	1.65	1.40	1.28	1.02	0.76	0.51
4	1.75	0.43	-0.05	2.34	2.13	1.90	1.28	1.02	0.76	0.51
5	-1.29	2.54	-0.50	1.05	1.28	0.08	1.28	1.02	0.76	0.51
6	-2.16	3.32	3.03	0.67	1.95	2.43	1.28	1.02	0.76	0.51
7	-0.78	2.77	0.61	1.25	2.36	2.21	1.28	1.02	0.76	0.51
8	2.00	1.91	0.74	1.56	1.68	2.05	1.28	1.02	0.76	0.51
9	1.88	1.78	2.74	1.65	1.85	1.60	1.28	1.02	0.76	0.51
10	-4.32	2.51	2.13	0.66	1.71	1.55	1.28	1.02	0.76	0.51

INDEX OF INDUSTRIAL PRODUCTION - SIC 15 - SUMMARY TABLE REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.13	1.47	0.89	1.50		16.34	16.82	14.49	14.49
2	1.00	2.45	1.26	0.89	1.58		29.31	24.18	19.21	19.21
3	1.00	0.94	1.52	0.89	1.04		-7.01	-7.67	-8.99	-8.99
4	1.00	1.11	2.01	0.89	1.20		-3.72	-4.49	-1.22	-1.22
5	1.00	0.44	0.68	0.89	0.67		-8.21	-16.41	-24.22	-24.22
6	1.00	1.19	2.19	0.89	1.27		-8.83	-3.03	2.08	2.08
7	1.00	0.95	2.29	0.89	1.19		-4.76	-7.44	-1.68	-1.68
8	1.00	1.55	1.86	0.89	1.35		4.87	4.20	6.21	6.21
9	1.00	2.01	1.72	0.89	1.50		3.59	14.03	14.63	14.63
10	1.00	0.21	1.63	0.89	0.76		-21.59	-20.18	-20.51	-20.51

INDEX OF INDUSTRIAL PRODUCTION - SIC 331

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1744	1.5115	1.7589	1.9546	2.2109	2.6806	2.7374	2.9680	3.1628	3.3103
2	1.0000	0.9434	1.1269	1.2502	1.3985	1.6064	1.8320	2.0217	2.1920	2.3359	2.4449
3	1.0000	0.9814	1.2128	1.3071	1.4427	1.6243	1.8326	2.0224	2.1927	2.3366	2.4456
4	1.0000	1.3114	1.6895	1.9645	2.2135	2.5066	2.8241	3.1165	3.3790	3.6007	3.7687
5	1.0000	1.1224	1.3253	1.4811	1.6191	1.8082	2.0181	2.2271	2.4147	2.5732	2.6932
6	1.0000	1.0645	1.3767	1.6228	1.8210	2.0621	2.3364	2.5784	2.7955	2.9790	3.1179
7	1.0000	1.2592	1.5457	1.7407	1.9142	2.1386	2.3747	2.6206	2.8413	3.0278	3.1690
8	1.0000	1.0340	1.3802	1.6815	2.0047	2.4038	2.7892	3.0781	3.3373	3.5563	3.7222
9	1.0000	1.0810	1.4122	1.6060	1.7852	1.9921	2.1877	2.4193	2.6176	2.7894	2.9195
10	1.0000	1.1240	1.4303	1.6621	1.8401	2.0729	2.3367	2.5786	2.7958	2.9793	3.1183

INDEX OF INDUSTRIAL PRODUCTION - SIC 331 - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	3.27	5.18	3.08	2.13	2.49	2.33	1.99	1.63	1.28	0.92
2	-1.16	3.62	2.10	2.27	2.81	2.66	1.99	1.63	1.28	0.92
3	-0.37	4.32	1.51	1.99	2.40	2.44	1.99	1.63	1.28	0.92
4	5.57	5.20	3.06	2.42	2.52	2.41	1.99	1.63	1.28	0.92
5	2.34	3.38	2.25	1.80	2.23	2.22	1.99	1.63	1.28	0.92
6	1.26	5.28	3.34	2.33	2.52	2.53	1.99	1.63	1.28	0.92
7	4.72	4.19	2.40	1.92	2.24	2.12	1.99	1.63	1.28	0.92
8	0.67	5.95	4.03	3.58	3.70	3.02	1.99	1.63	1.28	0.92
9	1.57	5.49	2.61	2.14	2.22	1.89	1.99	1.63	1.28	0.92
10	2.37	4.94	3.05	2.06	2.41	2.42	1.99	1.63	1.28	0.92

INDEX OF INDUSTRIAL PRODUCTION - SIC 331 - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00		3.41	2.41	1.45	2.42	7.88	8.63	7.79	7.79
2	1.00		1.69	2.74	1.45	1.80	-19.57	-22.28	-20.39	-20.39
3	1.00		1.85	2.42	1.45	1.80	-13.44	-19.82	-20.36	-20.36
4	1.00		4.05	2.47	1.45	2.69	20.58	23.02	22.72	22.72
5	1.00		2.44	2.23	1.45	2.00	-5.41	-10.02	-12.30	-12.30
6	1.00		3.04	2.52	1.45	2.30	-1.74	1.20	1.53	1.53
7	1.00		3.30	2.18	1.45	2.33	10.32	6.38	3.19	3.19
8	1.00		3.54	3.36	1.45	2.66	-1.49	11.41	21.21	21.21
9	1.00		2.94	2.05	1.45	2.17	0.79	-0.79	-4.93	-4.93
10	1.00		3.10	2.42	1.45	2.30	2.08	2.27	1.54	1.54

INDEX OF INDUSTRIAL PRODUCTION - SIC 3334

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1.1132	1.0371	1.1836	1.2529	1.3757	1.5518	1.7774	1.9517	2.0737	2.1259	2.1259
3	1.1132	1.1012	1.2508	1.3052	1.4241	1.5792	1.7846	1.9596	2.0821	2.1346	2.1346
4	1.1132	1.4844	1.7835	1.9619	2.1637	2.4059	2.7183	2.9848	3.1713	3.2513	3.2513
5	1.1132	1.3302	1.4999	1.6036	1.7229	1.8918	2.1225	2.3306	2.4763	2.5387	2.5387
6	1.1132	1.2181	1.4655	1.6409	1.8111	2.0170	2.2890	2.5134	2.6705	2.7379	2.7379
7	1.1132	1.4515	1.6856	1.8082	1.9542	2.1465	2.3932	2.6279	2.7921	2.8625	2.8625
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1.1132	1.3048	1.5866	1.7663	1.9253	2.1344	2.4190	2.6562	2.8222	2.8933	2.8933

INDEX OF INDUSTRIAL PRODUCTION - SIC 3334- AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	-1.41	2.68	1.14	1.89	2.44	2.75	1.89	1.22	0.50	0.00
3	-0.22	2.58	0.85	1.76	2.09	2.48	1.89	1.22	0.50	0.00
4	5.92	3.74	1.92	1.98	2.14	2.47	1.89	1.22	0.50	0.00
5	3.63	2.43	1.35	1.45	1.89	2.33	1.89	1.22	0.50	0.00
6	1.82	3.77	2.29	1.99	2.18	2.56	1.89	1.22	0.50	0.00
7	5.45	3.04	1.41	1.57	1.89	2.20	1.89	1.22	0.50	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	3.23	3.99	2.17	1.74	2.08	2.54	1.89	1.22	0.50	0.00

INDEX OF INDUSTRIAL PRODUCTION - SIC 3334- SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2	1.11	1.06	2.60	0.90	1.30	-20.76	-22.19	-19.75	-19.75	
3	1.11	1.24	2.28	0.90	1.31	-16.26	-19.46	-19.42	-19.42	
4	1.11	3.38	2.31	0.90	2.17	19.41	22.37	22.73	22.73	
5	1.11	2.21	2.11	0.90	1.66	0.42	-2.56	-4.17	-4.17	
6	1.11	2.46	2.37	0.90	1.82	-1.88	2.43	3.35	3.35	
7	1.11	2.85	2.05	0.90	1.91	12.85	10.52	8.05	8.05	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	1.11	2.78	2.31	0.90	1.93	6.22	8.89	9.22	9.22	

INDEX OF INDUSTRIAL PRODUCTION - SIC 33R

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1430	1.4236	1.5736	1.6944	1.8881	2.1074	2.2766	2.3562	2.3386	2.2317
2	1.0000	1.0028	1.1300	1.1868	1.2829	1.4485	1.6397	1.7714	1.8333	1.8196	1.7365
3	1.0000	0.9779	1.1768	1.2271	1.3132	1.4504	1.6191	1.7492	1.8103	1.7968	1.7147
4	1.0000	1.1983	1.4879	1.6341	1.7851	1.9990	2.2399	2.4198	2.5044	2.4857	2.3721
5	1.0000	1.0735	1.1985	1.2629	1.3302	1.4566	1.6104	1.7398	1.8006	1.7871	1.7055
6	1.0000	1.0264	1.2632	1.4062	1.5211	1.6897	1.8962	2.0485	2.1200	2.1042	2.0081
7	1.0000	1.1827	1.4005	1.4999	1.5942	1.7510	1.9356	2.0910	2.1641	2.1479	2.0498
8	1.0000	1.0129	1.3047	1.4265	1.6013	1.8621	2.1328	2.3041	2.3846	2.3668	2.2587
9	1.0000	1.0303	1.3035	1.4221	1.5478	1.7179	1.8903	2.0421	2.1135	2.0977	2.0019
10	1.0000	1.0563	1.2861	1.3994	1.4861	1.6360	1.8209	1.9672	2.0359	2.0207	1.9284

INDEX OF INDUSTRIAL PRODUCTION - SIC 33R - AVERAGE ANNUAL GROWTH RATES

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	2.71	4.49	2.02	1.49	2.19	2.22	1.56	0.69	-0.15	-0.93
2	0.06	2.42	0.99	1.57	2.46	2.51	1.56	0.69	-0.15	-0.93
3	-0.45	3.77	0.84	1.37	2.01	2.23	1.56	0.69	-0.15	-0.93
4	3.68	4.43	1.89	1.78	2.29	2.30	1.56	0.69	-0.15	-0.93
5	1.43	2.23	1.05	1.04	1.83	2.03	1.56	0.69	-0.15	-0.93
6	0.52	4.24	2.17	1.58	2.12	2.33	1.56	0.69	-0.15	-0.93
7	3.41	3.44	1.38	1.23	1.89	2.02	1.56	0.69	-0.15	-0.93
8	0.26	5.19	1.80	2.34	3.06	2.75	1.56	0.69	-0.15	-0.93
9	0.60	4.82	1.76	1.71	2.11	1.93	1.56	0.69	-0.15	-0.93
10	1.10	4.02	1.70	1.21	1.94	2.16	1.56	0.69	-0.15	-0.93

INDEX OF INDUSTRIAL PRODUCTION - SIC 33R - SUMMARY TABLE

REFERENCE CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.67	2.20	0.29	1.62		9.72	11.80	11.55	11.55
2	1.00	1.25	2.48	0.29	1.11		-12.91	-15.36	-13.21	-13.21
3	1.00	1.37	2.12	0.29	1.08		-9.30	-13.35	-14.30	-14.30
4	1.00	2.94	2.30	0.29	1.74		14.68	17.78	18.56	18.56
5	1.00	1.44	1.93	0.29	1.07		-7.63	-12.23	-14.76	-14.76
6	1.00	2.12	2.23	0.29	1.40		-2.64	0.36	0.37	0.37
7	1.00	2.36	1.96	0.29	1.45		7.94	5.18	2.45	2.45
8	1.00	2.38	2.91	0.29	1.64		0.55	5.65	12.89	12.89
9	1.00	2.21	2.02	0.29	1.40		0.46	2.13	0.06	0.06
10	1.00	2.00	2.05	0.29	1.32		-0.87	-1.95	-3.62	-3.62

A.2 LOW SCENARIO

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INDEX OF INDUSTRIAL PRODUCTION - SIC 20

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0960	1.1933	1.2899	1.3727	1.4863	1.6318	1.7301	1.8146	1.9053	2.0005
2	1.0000	1.1195	1.1915	1.2706	1.3309	1.4230	1.5535	1.6471	1.7275	1.8139	1.9045
3	1.0000	1.1185	1.2319	1.3160	1.4040	1.5134	1.6553	1.7551	1.8407	1.9328	2.0293
4	1.0000	1.1821	1.3527	1.4901	1.6000	1.7201	1.8723	1.9851	2.0820	2.1862	2.2954
5	1.0000	1.1005	1.1824	1.2850	1.3665	1.4628	1.5901	1.6859	1.7682	1.8566	1.9493
6	1.0000	1.1841	1.3442	1.4851	1.5954	1.7145	1.8729	1.9857	2.0826	2.1868	2.2960
7	1.0000	1.1290	1.2590	1.3773	1.4699	1.5740	1.7080	1.8109	1.8993	1.9943	2.0939
8	1.0000	1.1963	1.3700	1.5266	1.6359	1.7597	1.9128	2.0280	2.1270	2.2334	2.3450
9	1.0000	1.1462	1.3098	1.4628	1.5739	1.7047	1.8624	1.9746	2.0710	2.1746	2.2832
10	1.0000	1.1768	1.3524	1.5228	1.6339	1.7553	1.9140	2.0293	2.1284	2.2349	2.3465

INDEX OF INDUSTRIAL PRODUCTION - SIC 20 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.85	1.72	1.57	1.25	1.60	1.88	1.18	0.96	0.98	0.98
2	2.28	1.25	1.29	0.93	1.35	1.77	1.18	0.96	0.98	0.98
3	2.27	1.95	1.33	1.30	1.51	1.81	1.18	0.96	0.98	0.98
4	3.40	2.73	1.95	1.43	1.46	1.71	1.18	0.96	0.98	0.98
5	1.93	1.45	1.68	1.24	1.37	1.68	1.18	0.96	0.98	0.98
6	3.44	2.57	2.01	1.44	1.45	1.78	1.18	0.96	0.98	0.98
7	2.46	2.21	1.81	1.31	1.38	1.65	1.18	0.96	0.98	0.98
8	3.65	2.75	2.19	1.39	1.47	1.68	1.18	0.96	0.98	0.98
9	2.77	2.70	2.23	1.48	1.61	1.78	1.18	0.96	0.98	0.98
10	3.31	2.82	2.40	1.42	1.44	1.75	1.18	0.96	0.98	0.98

INDEX OF INDUSTRIAL PRODUCTION - SIC 20 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	1.60	1.74	1.02	1.40		-6.68	-8.38	-7.14	-7.14
2	1.00	1.44	1.56	1.02	1.30		-6.82	-11.18	-11.60	-11.60
3	1.00	1.71	1.66	1.02	1.43		-3.66	-6.29	-5.80	-5.80
4	1.00	2.38	1.58	1.02	1.68		5.78	6.78	6.54	6.54
5	1.00	1.57	1.53	1.02	1.34		-7.53	-8.80	-9.52	-9.52
6	1.00	2.36	1.62	1.02	1.68		5.12	6.48	6.58	6.58
7	1.00	1.94	1.51	1.02	1.49		-1.54	-1.90	-2.81	-2.81
8	1.00	2.49	1.58	1.02	1.72		7.14	9.18	8.85	8.85
9	1.00	2.29	1.70	1.02	1.66		2.43	5.04	5.98	5.98
10	1.00	2.49	1.60	1.02	1.72		5.76	9.05	8.92	8.92

INDEX OF INDUSTRIAL PRODUCTION - SIC 21

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1.0000	1.0575	1.1203	1.2142	1.2939	1.4153	1.5484	1.6344	1.7304	1.8314	1.9396
3	1.0000	0.9123	0.9484	0.9813	1.0265	1.0940	1.1634	1.2280	1.3001	1.3760	1.4573
4	1.0000	1.0419	1.0974	1.1438	1.1944	1.2734	1.3581	1.4334	1.5176	1.6063	1.7011
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

INDEX OF INDUSTRIAL PRODUCTION - SIC 21 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1.12	1.16	1.62	1.28	1.81	1.81	1.09	1.15	1.14	1.15
3	-1.82	0.78	0.68	0.91	1.28	1.24	1.09	1.15	1.14	1.15
4	0.82	1.04	0.83	0.87	1.29	1.30	1.09	1.15	1.14	1.15
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

INDEX OF INDUSTRIAL PRODUCTION - SIC 21 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2	1.00	1.30	1.81	1.13	1.33		6.15	10.44	14.14	14.14
3	1.00	0.13	1.26	1.13	0.76		-10.13	-12.38	-14.24	-14.24
4	1.00	0.89	1.29	1.13	1.07		3.98	1.94	0.11	0.11
5	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00

INDEX OF INDUSTRIAL PRODUCTION - SIC 22

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0038	1.0303	1.0187	1.0841	1.1650	1.2294	1.2572	1.2678	1.2802	1.2925
2	1.0000	0.9960	1.0526	1.0070	1.0623	1.1382	1.2072	1.2345	1.2449	1.2570	1.2692
3	1.0000	1.1274	1.2911	1.3143	1.4110	1.5062	1.5860	1.6220	1.6356	1.6515	1.6675
4	1.0000	1.0954	1.2174	1.2375	1.3160	1.3942	1.4590	1.4921	1.5046	1.5193	1.5340
5	1.0000	1.0726	1.1319	1.2208	1.3322	1.4402	1.5351	1.5699	1.5830	1.5985	1.6139
6	1.0000	1.1240	1.2038	1.2108	1.2688	1.2943	1.3424	1.3728	1.3843	1.3978	1.4113
7	1.0000	1.1182	1.1289	1.0210	1.0950	1.1511	1.1453	1.1712	1.1811	1.1926	1.2041
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1.0000	1.0857	1.0580	1.0259	1.0783	1.1683	1.2171	1.2447	1.2551	1.2674	1.2796
10	1.0000	1.0841	1.2162	1.2387	1.3446	1.4897	1.6189	1.6556	1.6695	1.6858	1.7021

INDEX OF INDUSTRIAL PRODUCTION - SIC 22 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.08	0.52	-0.23	1.25	1.45	1.08	0.45	0.17	0.19	0.19
2	-0.08	1.11	-0.88	1.08	1.39	1.18	0.45	0.17	0.19	0.19
3	2.43	2.75	0.36	1.43	1.31	1.04	0.45	0.17	0.19	0.19
4	1.84	2.13	0.33	1.24	1.16	0.91	0.45	0.17	0.19	0.19
5	1.41	1.08	1.52	1.76	1.57	1.28	0.45	0.17	0.19	0.19
6	2.37	1.38	0.12	0.62	0.72	0.73	0.45	0.17	0.19	0.19
7	2.26	0.19	-1.99	1.41	1.00	-0.10	0.45	0.17	0.19	0.19
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	1.66	-0.52	-0.61	1.00	1.62	0.82	0.45	0.17	0.19	0.19
10	1.63	2.33	0.37	1.66	2.07	1.68	0.45	0.17	0.19	0.19

INDEX OF INDUSTRIAL PRODUCTION - SIC 22 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	0.40	1.27	0.25	0.51		-10.23	-11.08	-10.34	-10.34
2	1.00	0.30	1.29	0.25	0.48		-8.29	-12.86	-11.96	-11.96
3	1.00	1.74	1.18	0.25	1.03		12.49	15.74	15.67	15.67
4	1.00	1.38	1.04	0.25	0.86		6.07	7.95	6.41	6.41
5	1.00	1.44	1.43	0.25	0.96		-1.38	9.27	11.95	11.95
6	1.00	1.12	0.73	0.25	0.69		4.88	2.43	-2.10	-2.10
7	1.00	0.46	0.45	0.25	0.37		-1.65	-10.18	-16.47	-16.47
8	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
9	1.00	0.38	1.22	0.25	0.49		-7.83	-11.56	-11.24	-11.24
10	1.00	1.49	1.87	0.25	1.07		5.96	10.29	18.07	18.07

INDEX OF INDUSTRIAL PRODUCTION - SIC 23

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0669	1.0620	0.9876	1.0080	1.0406	1.0728	1.0512	1.0059	0.9653	0.9260
2	1.0000	1.0334	1.0984	1.1043	1.1561	1.1964	1.2227	1.1981	1.1465	1.1002	1.0554
3	1.0000	1.0558	1.1004	1.0876	1.1239	1.1512	1.1680	1.1445	1.0952	1.0510	1.0082
4	1.0000	1.1853	1.3086	1.3239	1.3702	1.4079	1.4403	1.4113	1.3506	1.2960	1.2432
5	1.0000	1.0667	1.1123	1.1264	1.1980	1.2616	1.3102	1.2838	1.2286	1.1789	1.1309
6	1.0000	0.9983	1.0747	1.0475	1.0661	1.0802	1.0885	1.0666	1.0207	0.9794	0.9395
7	1.0000	1.0611	1.1681	1.1417	1.1980	1.2590	1.3104	1.2839	1.2287	1.1791	1.1310
8	1.0000	1.1079	1.1399	1.1545	1.1564	1.1322	1.1181	1.0956	1.0485	1.0061	0.9651
9	1.0000	1.2304	1.2969	1.2328	1.2816	1.3432	1.3971	1.3690	1.3101	1.2572	1.2059
10	1.0000	1.1405	1.4045	1.3825	1.4902	1.6172	1.7289	1.6940	1.6212	1.5557	1.4923

INDEX OF INDUSTRIAL PRODUCTION - SIC 23 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.30	-0.09	-1.44	0.41	0.64	0.61	-0.41	-0.88	-0.82	-0.83
2	0.66	1.23	0.11	0.92	0.69	0.44	-0.41	-0.88	-0.82	-0.83
3	1.09	0.83	-0.23	0.66	0.48	0.29	-0.41	-0.88	-0.82	-0.83
4	3.46	2.00	0.23	0.69	0.54	0.46	-0.41	-0.88	-0.82	-0.83
5	1.30	0.84	0.25	1.24	1.04	0.76	-0.41	-0.88	-0.82	-0.83
6	-0.03	1.49	-0.51	0.35	0.26	0.15	-0.41	-0.88	-0.82	-0.83
7	1.19	1.94	-0.46	0.97	1.00	0.80	-0.41	-0.88	-0.82	-0.83
8	2.07	0.57	0.25	0.03	-0.42	-0.25	-0.41	-0.88	-0.82	-0.83
9	4.23	1.06	-1.01	0.78	0.94	0.79	-0.41	-0.88	-0.82	-0.83
10	2.66	4.25	-0.31	1.51	1.65	1.35	-0.41	-0.88	-0.82	-0.83

INDEX OF INDUSTRIAL PRODUCTION - SIC 23 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	0.04	0.62	-0.73	-0.15		-9.74	-16.34	-16.56	-16.56
2	1.00	0.73	0.56	-0.73	0.11		-6.65	-4.04	-4.90	-4.90
3	1.00	0.59	0.39	-0.73	0.02		-6.47	-6.72	-9.15	-9.15
4	1.00	1.59	0.50	-0.73	0.44		11.22	13.72	12.03	12.03
5	1.00	0.91	0.90	-0.73	0.25		-5.47	-0.57	1.90	1.90
6	1.00	0.32	0.21	-0.73	-0.12		-8.66	-11.52	-15.34	-15.34
7	1.00	0.91	0.90	-0.73	0.25		-0.72	-0.57	1.92	1.92
8	1.00	0.73	-0.34	-0.73	-0.07		-3.11	-4.02	-13.03	-13.03
9	1.00	1.25	0.87	-0.73	0.38		10.23	6.37	8.67	8.67
10	1.00	2.01	1.50	-0.73	0.80		19.37	23.69	34.47	34.47

INDEX OF INDUSTRIAL PRODUCTION - SIC 24

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1947	1.2212	1.1495	1.2104	1.3081	1.3883	1.4182	1.4202	1.4250	1.4291
2	1.0000	1.2938	1.5334	1.6285	1.7491	1.9330	2.1250	2.1707	2.1739	2.1812	2.1874
3	1.0000	1.2116	1.3851	1.4263	1.5656	1.7226	1.8519	1.8918	1.8945	1.9008	1.9063
4	1.0000	1.2535	1.4483	1.5182	1.6394	1.7799	1.9030	1.9440	1.9468	1.9534	1.9589
5	1.0000	1.2658	1.4602	1.5429	1.6759	1.8528	2.0165	2.0600	2.0629	2.0699	2.0758
6	1.0000	1.2754	1.4333	1.4532	1.4881	1.5799	1.6818	1.7180	1.7205	1.7263	1.7312
7	1.0000	1.1414	1.2482	1.2961	1.3679	1.4561	1.5307	1.5636	1.5659	1.5711	1.5756
8	1.0000	1.1009	1.2075	1.2343	1.3033	1.4006	1.4767	1.5085	1.5106	1.5157	1.5200
9	1.0000	1.1315	1.1795	1.1639	1.2286	1.3497	1.4157	1.4462	1.4483	1.4531	1.4573
10	1.0000	1.1217	1.2733	1.3354	1.3860	1.4492	1.5121	1.5447	1.5469	1.5521	1.5565

INDEX OF INDUSTRIAL PRODUCTION - SIC 24 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	3.62	0.44	-1.20	1.04	1.56	1.20	0.43	0.03	0.07	0.06
2	5.29	3.46	1.21	1.44	2.02	1.91	0.43	0.03	0.07	0.06
3	3.91	2.71	0.59	1.88	1.93	1.46	0.43	0.03	0.07	0.06
4	4.62	2.93	0.95	1.55	1.66	1.35	0.43	0.03	0.07	0.06
5	4.83	2.90	1.11	1.67	2.03	1.71	0.43	0.03	0.07	0.06
6	4.99	2.36	0.28	0.48	1.20	1.26	0.43	0.03	0.07	0.06
7	2.68	1.81	0.76	1.08	1.26	1.00	0.43	0.03	0.07	0.06
8	1.94	1.87	0.44	1.09	1.45	1.06	0.43	0.03	0.07	0.06
9	2.50	0.83	-0.27	1.09	1.90	0.96	0.43	0.03	0.07	0.06
10	2.32	2.57	0.96	0.75	0.90	0.85	0.43	0.03	0.07	0.06

INDEX OF INDUSTRIAL PRODUCTION - SIC 24 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	0.96	1.38	0.14	0.72		-8.80	-17.18	-17.86	-17.86
2	1.00	2.83	1.97	0.14	1.58		14.52	19.68	25.73	25.73
3	1.00	2.27	1.69	0.14	1.30		3.44	7.13	9.57	9.57
4	1.00	2.50	1.50	0.14	1.35		8.16	12.18	12.59	12.59
5	1.00	2.62	1.87	0.14	1.47		9.05	14.68	19.31	19.31
6	1.00	2.01	1.23	0.14	1.10		7.05	1.83	-0.49	-0.49
7	1.00	1.58	1.13	0.14	0.91		-6.78	-6.40	-9.44	-9.44
8	1.00	1.33	1.26	0.14	0.84		-9.82	-10.82	-12.63	-12.63
9	1.00	1.03	1.43	0.14	0.76		-11.91	-15.93	-16.24	-16.24
10	1.00	1.65	0.87	0.14	0.89		-4.91	-5.16	-10.54	-10.54

INDEX OF INDUSTRIAL PRODUCTION - SIC 25

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2143	1.2375	1.2607	1.3864	1.5931	1.7706	1.8870	1.9799	2.0815	2.1870
2	1.0000	1.2941	1.3952	1.4699	1.6395	1.8806	2.0866	2.2237	2.3333	2.4529	2.5773
3	1.0000	1.3317	1.4106	1.4843	1.6549	1.8819	2.0728	2.2091	2.3179	2.4368	2.5603
4	1.0000	1.3782	1.5015	1.6128	1.7869	2.0103	2.2037	2.3485	2.4642	2.5906	2.7220
5	1.0000	1.2689	1.3521	1.4409	1.5676	1.7304	1.8634	1.9859	2.0837	2.1906	2.3017
6	1.0000	1.3681	1.4570	1.5286	1.6585	1.8467	2.0238	2.1568	2.2631	2.3791	2.4997
7	1.0000	1.4840	1.5734	1.6527	1.8272	2.0577	2.2554	2.4037	2.5221	2.6514	2.7859
8	1.0000	1.3031	1.5541	1.6775	1.8429	2.0607	2.2116	2.3569	2.4731	2.5999	2.7317
9	1.0000	1.4567	1.5875	1.7073	1.9310	2.2475	2.5018	2.6662	2.7976	2.9411	3.0902
10	1.0000	1.2864	1.5238	1.6888	1.8970	2.2070	2.5075	2.6723	2.8040	2.9478	3.0972

INDEX OF INDUSTRIAL PRODUCTION - SIC 25 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	3.96	0.38	0.37	1.92	2.82	2.13	1.28	0.97	1.01	0.99
2	5.29	1.52	1.05	2.21	2.78	2.10	1.28	0.97	1.01	0.99
3	5.90	1.16	1.02	2.20	2.60	1.95	1.28	0.97	1.01	0.99
4	6.63	1.73	1.44	2.07	2.38	1.85	1.28	0.97	1.01	0.99
5	4.88	1.28	1.28	1.70	2.00	1.49	1.28	0.97	1.01	0.99
6	6.47	1.27	0.96	1.65	2.17	1.85	1.28	0.97	1.01	0.99
7	8.21	1.18	0.99	2.03	2.40	1.85	1.28	0.97	1.01	0.99
8	5.44	3.59	1.54	1.90	2.26	1.42	1.28	0.97	1.01	0.99
9	7.81	1.73	1.47	2.49	3.08	2.17	1.28	0.97	1.01	0.99
10	5.17	3.45	2.08	2.35	3.07	2.59	1.28	0.97	1.01	0.99

INDEX OF INDUSTRIAL PRODUCTION - SIC 25 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00		1.65	2.48	1.06	1.58	-15.20	-19.36	-17.64	-17.64
2	1.00		2.50	2.44	1.06	1.91	-4.39	-4.64	-2.94	-2.94
3	1.00		2.55	2.28	1.06	1.90	-3.34	-3.74	-3.58	-3.58
4	1.00		2.95	2.12	1.06	2.02	2.90	3.94	2.51	2.51
5	1.00		2.27	1.74	1.06	1.68	-7.34	-8.82	-13.32	-13.32
6	1.00		2.56	2.01	1.06	1.85	-0.16	-3.53	-5.86	-5.86
7	1.00		3.06	2.13	1.06	2.07	7.82	6.28	4.92	4.92
8	1.00		3.10	1.84	1.06	2.03	6.49	7.20	2.88	2.88
9	1.00		3.34	2.62	1.06	2.28	8.79	12.32	16.38	16.38
10	1.00		3.25	2.83	1.06	2.29	4.42	10.34	16.64	16.64

INDEX OF INDUSTRIAL PRODUCTION - SIC 26

LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2032	1.3364	1.4646	1.5879	1.7310	1.9123	2.0429	2.1515	2.2705	2.3941
2	1.0000	1.1552	1.2694	1.3800	1.4904	1.6189	1.7830	1.9048	2.0061	2.1170	2.2322
3	1.0000	1.2045	1.3510	1.4897	1.6198	1.7679	1.9538	2.0873	2.1983	2.3198	2.4460
4	1.0000	1.2591	1.4390	1.6046	1.7493	1.9117	2.1182	2.2629	2.3832	2.5150	2.6518
5	1.0000	1.1511	1.2692	1.3852	1.5010	1.6327	1.8004	1.9234	2.0257	2.1377	2.2540
6	1.0000	1.1748	1.3500	1.5187	1.6630	1.8197	2.0177	2.1556	2.2702	2.3958	2.5261
7	1.0000	1.1638	1.3008	1.4363	1.5684	1.7174	1.9016	2.0315	2.1396	2.2579	2.3807
8	1.0000	1.2270	1.4800	1.7085	1.9849	2.2933	2.6425	2.8230	2.9731	3.1375	3.3082
9	1.0000	1.1845	1.3611	1.5182	1.6518	1.7988	1.9855	2.1211	2.2339	2.3575	2.4857
10	1.0000	1.1407	1.2731	1.4008	1.5183	1.6519	1.8232	1.9478	2.0513	2.1648	2.2826

INDEX OF INDUSTRIAL PRODUCTION - SIC 26 - AVERAGE ANNUAL GROWTH RATES

LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	3.77	2.12	1.85	1.63	1.74	2.01	1.33	1.04	1.08	1.07
2	2.93	1.90	1.69	1.55	1.67	1.95	1.33	1.04	1.08	1.07
3	3.79	2.32	1.97	1.69	1.76	2.02	1.33	1.04	1.08	1.07
4	4.72	2.71	2.20	1.74	1.79	2.07	1.33	1.04	1.08	1.07
5	2.85	1.97	1.76	1.62	1.70	1.97	1.33	1.04	1.08	1.07
6	3.27	2.82	2.38	1.83	1.82	2.09	1.33	1.04	1.08	1.07
7	3.08	2.25	2.00	1.77	1.83	2.06	1.33	1.04	1.08	1.07
8	4.18	3.82	2.91	3.05	2.93	2.88	1.33	1.04	1.08	1.07
9	3.44	2.82	2.21	1.70	1.72	1.99	1.33	1.04	1.08	1.07
10	2.67	2.22	1.93	1.62	1.70	1.99	1.33	1.04	1.08	1.07

INDEX OF INDUSTRIAL PRODUCTION - SIC 26 - SUMMARY TABLE

LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.34	1.88	1.13	1.76		-0.49	-2.79	-4.09	-4.09
2	1.00	2.02	1.81	1.13	1.62		-5.48	-8.76	-10.57	-10.57
3	1.00	2.44	1.89	1.13	1.81		0.60	-0.83	-2.01	-2.01
4	1.00	2.84	1.93	1.13	1.97		7.15	7.09	6.24	6.24
5	1.00	2.05	1.84	1.13	1.64		-5.49	-8.11	-9.70	-9.70
6	1.00	2.58	1.95	1.13	1.87		0.52	1.81	1.20	1.20
7	1.00	2.28	1.95	1.13	1.75		-3.15	-3.99	-4.62	-4.62
8	1.00	3.49	2.90	1.13	2.42		10.20	21.51	32.53	32.53
9	1.00	2.54	1.86	1.13	1.84		1.35	1.12	-0.42	-0.42
10	1.00	2.11	1.85	1.13	1.66		-5.20	-7.05	-8.56	-8.56

INDEX OF INDUSTRIAL PRODUCTION - SIC 27

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2797	1.3991	1.5022	1.6153	1.7608	1.9359	2.0484	2.1344	2.2275	2.3235
2	1.0000	1.1972	1.3075	1.4082	1.5162	1.6487	1.8023	1.9071	1.9871	2.0738	2.1632
3	1.0000	1.2338	1.3519	1.4430	1.5493	1.6809	1.8369	1.9437	2.0252	2.1136	2.2047
4	1.0000	1.4071	1.6466	1.8334	1.9996	2.1933	2.4222	2.5629	2.6705	2.7871	2.9072
5	1.0000	1.1777	1.2692	1.3660	1.4668	1.5915	1.7378	1.8388	1.9159	1.9996	2.0857
6	1.0000	1.3372	1.5351	1.7160	1.8798	2.0600	2.2669	2.3986	2.4992	2.6083	2.7207
7	1.0000	1.2056	1.3528	1.4728	1.5903	1.7339	1.9014	2.0119	2.0963	2.1878	2.2821
8	1.0000	1.4094	1.6436	1.8314	2.0060	2.2037	2.4368	2.5784	2.6866	2.8038	2.9247
9	1.0000	1.2709	1.4620	1.6145	1.7614	1.9336	2.1390	2.2632	2.3582	2.4612	2.5672
10	1.0000	1.2757	1.4770	1.6304	1.7635	1.9273	2.1286	2.2523	2.3469	2.4493	2.5548

INDEX OF INDUSTRIAL PRODUCTION - SIC 27 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	5.06	1.80	1.43	1.46	1.74	1.91	1.14	0.83	0.86	0.85
2	3.66	1.78	1.50	1.49	1.69	1.80	1.14	0.83	0.86	0.85
3	4.29	1.84	1.31	1.43	1.64	1.79	1.14	0.83	0.86	0.85
4	7.07	3.19	2.17	1.75	1.87	2.01	1.14	0.83	0.86	0.85
5	3.33	1.51	1.48	1.43	1.65	1.77	1.14	0.83	0.86	0.85
6	5.98	2.80	2.25	1.84	1.85	1.93	1.14	0.83	0.86	0.85
7	3.81	2.33	1.71	1.55	1.74	1.86	1.14	0.83	0.86	0.85
8	7.10	3.12	2.19	1.84	1.90	2.03	1.14	0.83	0.86	0.85
9	4.91	2.84	2.00	1.76	1.88	2.04	1.14	0.83	0.86	0.85
10	4.99	2.97	2.00	1.58	1.79	2.01	1.14	0.83	0.86	0.85

INDEX OF INDUSTRIAL PRODUCTION - SIC 27 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.43	1.83	0.92	1.70		-3.14	-5.80	-6.06	-6.06
2	1.00	2.10	1.74	0.92	1.56		-9.48	-11.58	-12.54	-12.54
3	1.00	2.21	1.72	0.92	1.59		-6.41	-9.65	-10.86	-10.86
4	1.00	3.53	1.94	0.92	2.16		13.99	16.61	17.54	17.54
5	1.00	1.93	1.71	0.92	1.48		-12.13	-14.46	-15.67	-15.67
6	1.00	3.21	1.89	0.92	2.02		6.27	9.62	10.00	10.00
7	1.00	2.35	1.80	0.92	1.66		-6.35	-7.26	-7.73	-7.73
8	1.00	3.54	1.96	0.92	2.17		13.79	16.98	18.25	18.25
9	1.00	2.87	1.96	0.92	1.90		1.21	2.72	3.79	3.79
10	1.00	2.88	1.90	0.92	1.89		2.25	2.84	3.29	3.29

INDEX OF INDUSTRIAL PRODUCTION - SIC 28

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.3408	1.4811	1.7570	2.0793	2.4531	2.9193	3.3589	3.8073	4.3235	4.9064
2	1.0000	1.1772	1.4101	1.6580	1.9387	2.2883	2.7499	3.1583	3.5799	4.0652	4.6134
3	1.0000	1.1735	1.3958	1.6530	1.9421	2.2836	2.7213	3.1312	3.5492	4.0303	4.5738
4	1.0000	1.2312	1.5135	1.8362	2.1733	2.5709	3.0736	3.5365	4.0086	4.5521	5.1659
5	1.0000	1.2007	1.4396	1.7459	2.0345	2.3625	2.7982	3.2196	3.6496	4.1441	4.7029
6	1.0000	1.1769	1.4725	1.7975	2.0953	2.4404	2.9027	3.3398	3.7857	4.2989	4.8786
7	1.0000	1.1495	1.4182	1.7125	1.9992	2.3499	2.7969	3.2182	3.6477	4.1423	4.7008
8	1.0000	1.4696	1.7563	2.1323	2.5684	3.0305	3.5614	4.0978	4.6448	5.2745	5.9857
9	1.0000	1.1800	1.4374	1.7690	2.1091	2.4890	2.9272	3.3681	3.8177	4.3353	4.9198
10	1.0000	1.5345	1.9420	2.3629	2.7219	3.1701	3.7821	4.3517	4.9326	5.6013	6.3566

INDEX OF INDUSTRIAL PRODUCTION - SIC 28 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	6.04	2.01	3.48	3.43	3.36	3.54	2.85	2.54	2.58	2.56
2	3.32	3.68	3.29	3.18	3.37	3.71	2.85	2.54	2.58	2.56
3	3.25	3.53	3.44	3.28	3.29	3.57	2.85	2.54	2.58	2.56
4	4.25	4.22	3.94	3.43	3.42	3.64	2.85	2.54	2.58	2.56
5	3.73	3.70	3.93	3.11	3.03	3.44	2.85	2.54	2.58	2.56
6	3.31	4.58	4.07	3.11	3.10	3.53	2.85	2.54	2.58	2.56
7	2.83	4.29	3.84	3.14	3.29	3.54	2.85	2.54	2.58	2.56
8	8.00	3.63	3.96	3.79	3.36	3.28	2.85	2.54	2.58	2.56
9	3.37	4.02	4.24	3.58	3.37	3.30	2.85	2.54	2.58	2.56
10	8.94	4.82	4.00	2.87	3.10	3.59	2.85	2.54	2.58	2.56

INDEX OF INDUSTRIAL PRODUCTION - SIC 28 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	3.73	3.45	2.63	3.23		-2.98	-4.01	-3.42	-3.42
2	1.00	3.37	3.54	2.63	3.11		-7.64	-10.50	-9.19	-9.19
3	1.00	3.37	3.43	2.63	3.09		-8.57	-10.35	-9.97	-9.97
4	1.00	3.96	3.53	2.63	3.34		-0.86	0.33	1.68	1.68
5	1.00	3.62	3.24	2.63	3.14		-5.70	-6.08	-7.43	-7.43
6	1.00	3.77	3.31	2.63	3.22		-3.55	-3.27	-3.97	-3.97
7	1.00	3.52	3.41	2.63	3.14		-7.10	-7.71	-7.47	-7.47
8	1.00	4.83	3.32	2.63	3.64		15.04	18.57	17.82	17.82
9	1.00	3.80	3.33	2.63	3.24		-5.85	-2.64	-3.16	-3.16
10	1.00	5.13	3.34	2.63	3.77		27.21	25.65	25.12	25.12

INDEX OF INDUSTRIAL PRODUCTION - SIC 29

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0106	1.0787	1.0936	1.1547	1.1926	1.2388	1.2480	1.2619	1.2380	1.2334
2	1.0000	0.8604	0.8975	0.8678	0.8771	0.9019	0.9608	0.9679	0.9631	0.9602	0.9566
3	1.0000	0.8222	0.9124	0.9178	0.9857	1.0255	1.0500	1.0578	1.0526	1.0494	1.0455
4	1.0000	1.1936	1.2956	1.3264	1.3653	1.4004	1.4467	1.4574	1.4503	1.4458	1.4404
5	1.0000	0.7450	0.7927	0.8131	0.8196	0.8313	0.8519	0.8582	0.8540	0.8513	0.8482
6	1.0000	1.0179	1.1115	1.1442	1.1597	1.1797	1.2242	1.2333	1.2272	1.2234	1.2189
7	1.0000	0.9470	1.0768	1.1358	1.1600	1.1838	1.2240	1.2331	1.2271	1.2233	1.2187
8	1.0000	0.7902	0.9272	0.9730	1.0189	1.0464	1.0814	1.0895	1.0841	1.0807	1.0767
9	1.0000	1.1229	1.2458	1.2762	1.3502	1.4008	1.4488	1.4596	1.4524	1.4479	1.4426
10	1.0000	0.8653	1.0143	1.0901	1.1486	1.1898	1.2558	1.2652	1.2590	1.2551	1.2504

INDEX OF INDUSTRIAL PRODUCTION - SIC 29 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.21	1.31	0.27	1.09	0.65	0.76	0.15	-0.10	-0.06	-0.07
2	-2.96	0.85	-0.67	0.21	0.56	1.27	0.15	-0.10	-0.06	-0.07
3	-3.84	2.10	0.12	1.44	0.80	0.47	0.15	-0.10	-0.06	-0.07
4	3.60	1.65	0.47	0.58	0.51	0.65	0.15	-0.10	-0.06	-0.07
5	-5.72	1.25	0.51	0.16	0.28	0.49	0.15	-0.10	-0.06	-0.07
6	0.36	1.77	0.58	0.27	0.34	0.74	0.15	-0.10	-0.06	-0.07
7	-1.08	2.60	1.07	0.42	0.41	0.67	0.15	-0.10	-0.06	-0.07
8	-4.60	3.25	0.97	0.93	0.50	0.70	0.15	-0.10	-0.06	-0.07
9	2.34	2.10	0.48	1.13	0.74	0.68	0.15	-0.10	-0.06	-0.07
10	-2.85	3.23	1.45	1.05	0.71	1.09	0.15	-0.10	-0.06	-0.07

INDEX OF INDUSTRIAL PRODUCTION - SIC 29 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	0.72	0.71	-0.02	0.42		4.20	4.59	5.14	5.14
2	1.00	-0.65	0.91	-0.02	-0.09		-13.30	-20.55	-18.46	-18.46
3	1.00	-0.07	0.63	-0.02	0.09		-11.87	-10.71	-10.88	-10.88
4	1.00	1.57	0.58	-0.02	0.73		25.15	23.67	22.78	22.78
5	1.00	-0.99	0.39	-0.02	-0.33		-23.43	-25.75	-27.70	-27.70
6	1.00	0.74	0.54	-0.02	0.40		7.37	5.04	3.90	3.90
7	1.00	0.74	0.54	-0.02	0.40		4.01	5.08	3.89	3.89
8	1.00	0.09	0.60	-0.02	0.15		-10.43	-7.71	-8.22	-8.22
9	1.00	1.51	0.71	-0.02	0.74		20.33	22.30	22.97	22.97
10	1.00	0.69	0.90	-0.02	0.45		-2.02	4.04	6.59	6.59

INDEX OF INDUSTRIAL PRODUCTION - SIC 30

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.3767	1.6424	1.9214	2.2912	2.6853	3.2181	3.6130	3.9305	4.2927	4.6825
2	1.0000	1.4123	1.7555	2.1096	2.4633	2.9411	3.6332	4.0790	4.4375	4.8464	5.2865
3	1.0000	1.3516	1.6771	1.8634	2.1891	2.5960	3.1658	3.5543	3.8667	4.2230	4.6065
4	1.0000	1.5539	2.1088	2.6460	3.1529	3.7747	4.6231	5.1904	5.6466	6.1669	6.7269
5	1.0000	1.4434	1.7803	2.1219	2.4233	2.8411	3.4377	3.8955	4.1987	4.5856	5.0020
6	1.0000	1.4568	1.9243	2.3292	2.6959	3.1682	3.8627	4.3367	4.7179	5.1526	5.6205
7	1.0000	1.4933	1.8333	2.2964	2.5745	2.8979	3.5809	3.7958	4.1294	4.5099	4.9194
8	1.0000	1.0263	1.3063	1.6121	1.9216	2.3057	2.7796	3.1207	3.3950	3.7078	4.0445
9	1.0000	1.3652	1.7425	2.1238	2.5364	3.0377	3.6748	4.1257	4.4883	4.9019	5.3470
10	1.0000	1.4954	1.8283	2.1230	2.4549	2.9222	3.5920	4.0327	4.3872	4.7915	5.2265

INDEX OF INDUSTRIAL PRODUCTION - SIC 30 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	6.60	3.59	3.19	3.58	3.22	3.69	2.34	1.70	1.78	1.75
2	7.15	4.45	3.74	3.15	3.61	4.32	2.34	1.70	1.78	1.75
3	6.21	4.41	2.13	3.27	3.47	4.05	2.34	1.70	1.78	1.75
4	9.22	6.30	4.64	3.57	3.67	4.14	2.34	1.70	1.78	1.75
5	7.62	4.28	3.57	2.69	3.23	3.89	2.34	1.70	1.78	1.75
6	7.82	5.72	3.89	2.97	3.28	4.04	2.34	1.70	1.78	1.75
7	8.35	4.19	4.61	2.31	2.40	3.13	2.34	1.70	1.78	1.75
8	0.52	4.94	4.30	3.57	3.71	3.81	2.34	1.70	1.78	1.75
9	6.42	5.00	4.04	3.61	3.67	3.88	2.34	1.70	1.78	1.75
10	8.38	4.10	3.03	2.95	3.55	4.21	2.34	1.70	1.78	1.75

INDEX OF INDUSTRIAL PRODUCTION - SIC 30 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	4.23	3.46	1.89	3.14		-6.67	-7.25	-9.01	-9.01
2	1.00	4.61	3.96	1.89	3.39		-0.25	-0.28	2.73	2.73
3	1.00	4.00	3.76	1.89	3.10		-4.70	-11.38	-10.49	-10.49
4	1.00	5.91	3.90	1.89	3.89		19.82	27.63	30.71	30.71
5	1.00	4.52	3.56	1.89	3.27		1.16	-1.90	-2.80	-2.80
6	1.00	5.08	3.66	1.89	3.51		9.34	9.13	9.22	9.22
7	1.00	4.84	2.76	1.89	3.24		4.17	4.22	-4.41	-4.41
8	1.00	3.32	3.76	1.89	2.83		-25.77	-22.21	-21.41	-21.41
9	1.00	4.76	3.78	1.89	3.41		-0.98	2.68	3.90	3.90
10	1.00	4.59	3.88	1.89	3.36		3.89	-0.62	1.56	1.56

INDEX OF INDUSTRIAL PRODUCTION - SIC 31

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	0.8926	0.8402	0.7132	0.6569	0.5520	0.4370	0.3698	0.3066	0.2555	0.2124
2	1.0000	0.9012	0.8362	0.7075	0.6621	0.5583	0.4402	0.3725	0.3088	0.2573	0.2140
3	1.0000	0.8926	0.8659	0.7420	0.6863	0.5718	0.4464	0.3777	0.3132	0.2610	0.2170
4	1.0000	0.7997	0.8077	0.7033	0.6511	0.5418	0.4247	0.3593	0.2979	0.2483	0.2065
5	1.0000	0.9545	0.9062	0.7903	0.7486	0.6379	0.5081	0.4299	0.3564	0.2970	0.2470
6	1.0000	1.0402	1.0428	0.9088	0.8515	0.7190	0.5689	0.4814	0.3991	0.3326	0.2766
7	1.0000	0.9494	0.9512	0.8325	0.7826	0.6631	0.5277	0.4465	0.3702	0.3085	0.2565
8	1.0000	0.7795	0.7162	0.6172	0.5336	0.4121	0.3020	0.2555	0.2119	0.1765	0.1468
9	1.0000	0.8317	0.8540	0.7337	0.7180	0.6410	0.5317	0.4499	0.3730	0.3109	0.2585
10	1.0000	1.9127	1.7435	1.5832	1.4383	1.1987	0.9498	0.8037	0.6663	0.5552	0.4617

INDEX OF INDUSTRIAL PRODUCTION - SIC 31 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	-2.25	-1.20	-3.22	-1.63	-3.42	-4.57	-3.29	-3.68	-3.58	-3.62
2	-2.06	-1.49	-3.29	-1.32	-3.35	-4.64	-3.29	-3.68	-3.58	-3.62
3	-2.25	-0.61	-3.04	-1.55	-3.58	-4.83	-3.29	-3.68	-3.58	-3.62
4	-4.37	0.20	-2.73	-1.53	-3.61	-4.76	-3.29	-3.68	-3.58	-3.62
5	-0.93	-1.03	-2.70	-1.08	-3.15	-4.45	-3.29	-3.68	-3.58	-3.62
6	0.79	0.05	-2.71	-1.29	-3.33	-4.58	-3.29	-3.68	-3.58	-3.62
7	-1.03	0.04	-2.63	-1.23	-3.26	-4.47	-3.29	-3.68	-3.58	-3.62
8	-4.86	-1.68	-2.93	-2.87	-5.03	-6.03	-3.29	-3.68	-3.58	-3.62
9	-3.62	0.53	-2.99	-0.43	-2.24	-3.67	-3.29	-3.68	-3.58	-3.62
10	13.85	-1.84	-1.91	-1.90	-3.58	-4.55	-3.29	-3.68	-3.58	-3.62

INDEX OF INDUSTRIAL PRODUCTION - SIC 31 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	-2.08	-4.00	-3.54	-3.05		-12.14	-15.01	-14.92	-14.92
2	1.00	-2.04	-4.00	-3.54	-3.04		-12.57	-14.34	-14.30	-14.30
3	1.00	-1.86	-4.21	-3.54	-3.01		-9.46	-11.21	-13.09	-13.09
4	1.00	-2.12	-4.18	-3.54	-3.11		-15.55	-15.76	-17.32	-17.32
5	1.00	-1.44	-3.80	-3.54	-2.76		-5.25	-3.14	-1.08	-1.08
6	1.00	-0.80	-3.95	-3.54	-2.54		9.04	10.17	10.76	10.76
7	1.00	-1.22	-3.87	-3.54	-2.68		-0.54	1.26	2.73	2.73
8	1.00	-3.09	-5.53	-3.54	-3.76		-25.11	-30.97	-41.21	-41.21
9	1.00	-1.64	-2.96	-3.54	-2.67		-10.71	-7.10	3.52	3.52
10	1.00		1.83	-4.06	-3.54		82.29	86.09	84.91	84.91

INDEX OF INDUSTRIAL PRODUCTION - SIC 32

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1341	1.3784	1.5285	1.7157	1.9161	2.1191	2.2667	2.3801	2.5061	2.6374
2	1.0000	1.0287	1.1544	1.2375	1.3398	1.4767	1.6303	1.7423	1.8311	1.9280	2.0290
3	1.0000	1.0203	1.1669	1.2361	1.3510	1.4857	1.6332	1.7455	1.8344	1.9315	2.0327
4	1.0000	1.2165	1.4241	1.5479	1.7356	1.9321	2.1336	2.2802	2.3964	2.5233	2.6554
5	1.0000	1.0456	1.1653	1.2674	1.3905	1.5344	1.6876	1.8035	1.8954	1.9958	2.1003
6	1.0000	1.2684	1.4259	1.6394	1.8185	1.9876	2.1768	2.3263	2.4449	2.5743	2.7092
7	1.0000	1.0194	1.1416	1.2209	1.3315	1.4644	1.5947	1.7043	1.7912	1.8860	1.9848
8	1.0000	1.1067	1.3458	1.4918	1.6644	1.8547	2.0348	2.1746	2.2854	2.4064	2.5324
9	1.0000	1.1773	1.3998	1.5579	1.7611	2.0096	2.2471	2.4015	2.5239	2.6575	2.7967
10	1.0000	1.0522	1.2730	1.3930	1.5577	1.7890	2.0336	2.1733	2.2841	2.4050	2.5310

INDEX OF INDUSTRIAL PRODUCTION - SIC 32 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

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1980-1985 1985-1990 1990-1995 1995-2000 2000-2005 2005-2010 2010-2015 2015-2020 2020-2025 2025-2030

1	2.55	3.98	2.09	2.34	2.23	2.03	1.34	1.00	1.04	1.03
2	0.57	2.33	1.40	1.60	1.97	2.00	1.34	1.00	1.04	1.03
3	0.40	2.72	1.16	1.79	1.92	1.91	1.34	1.00	1.04	1.03
4	4.00	3.20	1.68	2.32	2.17	2.00	1.34	1.00	1.04	1.03
5	0.90	2.19	1.70	1.87	1.99	1.92	1.34	1.00	1.04	1.03
6	4.87	2.37	2.83	2.10	1.79	1.83	1.34	1.00	1.04	1.03
7	0.29	2.39	1.35	1.79	1.88	1.72	1.34	1.00	1.04	1.03
8	2.05	3.99	2.08	2.21	2.19	1.87	1.34	1.00	1.04	1.03
9	3.32	3.52	2.16	2.48	2.67	2.26	1.34	1.00	1.04	1.03
10	1.02	3.88	1.82	2.26	2.81	2.60	1.34	1.00	1.04	1.03

INDEX OF INDUSTRIAL PRODUCTION - SIC 32 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.74	2.13	1.10	1.96		7.06	9.50	9.85	9.85
2	1.00	1.47	1.98	1.10	1.43	-10.34	-14.49	-15.49	-15.49	-15.49
3	1.00	1.52	1.92	1.10	1.43	-9.37	-13.78	-15.34	-15.34	-15.34
4	1.00	2.80	2.09	1.10	1.97	10.61	10.77	10.60	10.60	10.60
5	1.00	1.66	1.96	1.10	1.50	-9.50	-11.26	-12.52	-12.52	-12.52
6	1.00	3.04	1.81	1.10	2.01	10.75	16.06	12.84	12.84	12.84
7	1.00	1.45	1.80	1.10	1.38	-11.33	-14.83	-17.33	-17.33	-17.33
8	1.00	2.58	2.03	1.10	1.88	4.53	6.22	5.48	5.48	5.48
9	1.00	2.87	2.47	1.10	2.08	8.72	12.40	16.49	16.49	16.49
10	1.00	2.24	2.70	1.10	1.87	-1.13	-0.58	5.42	5.42	5.42

INDEX OF INDUSTRIAL PRODUCTION - SIC 34

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1231	1.2433	1.3645	1.5583	1.7821	2.0166	2.2067	2.3867	2.5861	2.8010
2	1.0000	1.0877	1.2256	1.3220	1.4889	1.7043	1.9420	2.1250	2.2984	2.4904	2.6974
3	1.0000	0.9947	1.0970	1.1715	1.3161	1.5035	1.7064	1.8673	2.0196	2.1883	2.3702
4	1.0000	1.1786	1.3758	1.5424	1.7735	2.0378	2.3200	2.5387	2.7457	2.9752	3.2224
5	1.0000	1.0882	1.1472	1.2264	1.3805	1.5694	1.7709	1.9378	2.0959	2.2710	2.4597
6	1.0000	1.0748	1.2777	1.4749	1.6557	1.8837	2.1953	2.3475	2.5390	2.7512	2.9798
7	1.0000	1.0954	1.2078	1.3378	1.5142	1.7111	1.9194	2.1004	2.2717	2.4615	2.6661
8	1.0000	1.1261	1.3156	1.5023	1.6812	1.8671	2.0546	2.2482	2.4316	2.6348	2.8538
9	1.0000	1.1346	1.3450	1.5423	1.7806	2.0616	2.3445	2.5655	2.7747	3.0066	3.2564
10	1.0000	1.0682	1.2510	1.3916	1.5508	1.7714	2.0203	2.2107	2.3911	2.5909	2.8062

INDEX OF INDUSTRIAL PRODUCTION - SIC 34 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	2.35	2.05	1.88	2.69	2.72	2.50	1.82	1.58	1.62	1.61
2	1.70	2.42	1.53	2.41	2.74	2.65	1.82	1.58	1.62	1.61
3	-0.11	1.98	1.32	2.35	2.70	2.56	1.82	1.58	1.62	1.61
4	3.34	3.14	2.31	2.83	2.82	2.63	1.82	1.58	1.62	1.61
5	1.70	1.06	1.35	2.39	2.60	2.44	1.82	1.58	1.62	1.61
6	1.45	3.52	2.91	2.34	2.61	2.63	1.82	1.58	1.62	1.61
7	1.84	1.97	2.07	2.51	2.48	2.32	1.82	1.58	1.62	1.61
8	2.40	3.16	2.69	2.28	2.12	1.93	1.82	1.58	1.62	1.61
9	2.56	3.46	2.78	2.92	2.97	2.60	1.82	1.58	1.62	1.61
10	1.33	3.21	2.15	2.19	2.70	2.66	1.82	1.58	1.62	1.61

INDEX OF INDUSTRIAL PRODUCTION - SIC 34 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.24	2.61	1.66	2.08		-0.42	-0.74	-0.37	-0.37
2	1.00	2.01	2.69	1.66	2.00		-1.84	-5.16	-4.05	-4.05
3	1.00	1.38	2.63	1.66	1.74		-12.14	-16.17	-15.69	-15.69
4	1.00	2.91	2.72	1.66	2.37		10.19	12.96	14.62	19.62
5	1.00	1.63	2.52	1.66	1.82		-8.12	-12.07	-12.51	-12.51
6	1.00	2.55	2.62	1.66	2.21		2.33	5.46	5.99	5.99
7	1.00	2.10	2.40	1.66	1.98		-3.26	-3.55	-5.17	-5.17
8	1.00	2.63	2.03	1.66	2.12		5.35	7.08	1.51	1.51
9	1.00	2.93	2.79	1.66	2.39		7.72	13.42	15.83	15.83
10	1.00	2.22	2.68	1.66	2.09		0.19	-1.22	-0.18	-0.18

INDEX OF INDUSTRIAL PRODUCTION - SIC 35

LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2596	1.5706	1.9522	2.3551	2.7367	3.2362	3.6251	3.9737	4.3670	4.7948
2	1.0000	1.2416	1.4587	1.7126	1.9990	2.3021	2.7152	3.0415	3.3340	3.6640	4.0229
3	1.0000	1.1459	1.3825	1.6105	1.8792	2.1620	2.5420	2.8475	3.1213	3.4302	3.7663
4	1.0000	1.4912	1.9045	2.3187	2.7466	3.1786	3.7530	4.2040	4.6083	5.0644	5.5605
5	1.0000	1.1282	1.3247	1.5593	1.7945	2.0421	2.3809	2.6671	2.9236	3.2129	3.5277
6	1.0000	1.1974	1.5734	1.9040	2.2519	2.6119	3.1028	3.4757	3.8099	4.1870	4.5972
7	1.0000	1.1007	1.2877	1.4922	1.7061	1.9310	2.2357	2.5043	2.7452	3.0169	3.3124
8	1.0000	1.6270	2.1359	2.6771	3.3660	4.1210	5.0446	5.6509	6.1943	6.8074	7.4743
9	1.0000	1.4190	1.8196	2.2788	2.6961	3.1017	3.6263	4.0622	4.4528	4.8935	5.3729
10	1.0000	1.3890	1.6865	2.0489	2.4182	2.7970	3.3104	3.7083	4.0649	4.4672	4.9049

INDEX OF INDUSTRIAL PRODUCTION - SIC 35 - AVERAGE ANNUAL GROWTH RATES

LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	4.72	4.51	4.45	3.82	3.05	3.41	2.30	1.85	1.91	1.89
2	4.42	3.28	3.26	3.14	2.86	3.36	2.30	1.85	1.91	1.89
3	2.76	3.83	3.10	3.13	2.84	3.29	2.30	1.85	1.91	1.89
4	8.32	5.01	4.01	3.45	2.96	3.38	2.30	1.85	1.91	1.89
5	2.44	3.26	3.31	2.85	2.62	3.12	2.30	1.85	1.91	1.89
6	3.67	5.61	3.89	3.41	3.01	3.50	2.30	1.85	1.91	1.89
7	1.94	3.19	2.99	2.72	2.51	2.97	2.30	1.85	1.91	1.89
8	10.22	5.59	4.62	4.69	4.13	4.13	2.30	1.85	1.91	1.89
9	7.25	5.10	4.60	3.42	2.84	3.18	2.30	1.85	1.91	1.89
10	6.79	3.96	3.97	3.37	2.95	3.43	2.30	1.85	1.91	1.89

INDEX OF INDUSTRIAL PRODUCTION - SIC 35 - SUMMARY TABLE

LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	4.38	3.23	1.99	3.18		-2.71	1.46	1.30	1.30
2	1.00	3.52	3.11	1.99	2.82		-9.65	-13.88	-15.01	-15.01
3	1.00	3.20	3.07	1.99	2.69		-14.37	-19.04	-20.43	-20.43
4	1.00	5.18	3.17	1.99	3.49		17.97	18.32	17.47	17.47
5	1.00	2.97	2.87	1.99	2.55		-17.95	-22.70	-25.47	-25.47
6	1.00	4.14	3.26	1.99	3.10		-2.54	-2.99	-2.88	-2.88
7	1.00	2.71	2.74	1.99	2.42		-20.24	-26.50	-30.02	-30.02
8	1.00	6.26	4.13	1.99	4.10		32.30	45.01	57.91	57.91
9	1.00	5.08	3.01	1.99	3.42		12.71	16.15	13.51	13.51
10	1.00	4.51	3.19	1.99	3.23		4.46	4.18	3.62	3.62

INDEX OF INDUSTRIAL PRODUCTION - SIC 36

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.5173	1.8790	2.1855	2.6398	3.1339	3.6272	4.0127	4.3326	4.6914	5.0755
2	1.0000	1.3535	1.5618	1.7442	2.0245	2.3901	2.7350	3.0257	3.2669	3.5375	3.8270
3	1.0000	1.3523	1.5944	1.7769	2.0780	2.4600	2.8197	3.1194	3.3681	3.6470	3.9456
4	1.0000	1.5231	1.8963	2.2086	2.6433	3.1081	3.6108	3.9945	4.3130	4.6702	5.0525
5	1.0000	1.2313	1.3622	1.4500	1.6417	1.8855	2.1347	2.3615	2.5498	2.7610	2.9870
6	1.0000	1.4003	1.7585	2.0246	2.4512	2.9191	3.4017	3.7632	4.0633	4.3998	4.7600
7	1.0000	1.1930	1.4223	1.5989	1.8368	2.1422	2.4625	2.7242	2.9414	3.1851	3.4458
8	1.0070	1.7044	2.1507	2.5303	3.1593	3.9151	4.7305	5.2332	5.6504	6.1184	6.6193
9	1.0000	1.5823	1.9695	2.3093	2.7762	3.3066	3.8408	4.2940	4.5878	4.9677	5.3744
10	1.0000	1.5894	1.9914	2.3264	2.8269	3.3306	3.8892	4.3025	4.6456	5.0303	5.4421

INDEX OF INDUSTRIAL PRODUCTION - SIC 36 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	8.70	4.37	3.07	3.85	3.49	2.97	2.04	1.55	1.60	1.59
2	6.24	2.90	2.23	3.03	3.38	2.73	2.04	1.55	1.60	1.59
3	6.22	3.35	2.19	3.18	3.43	2.77	2.04	1.55	1.60	1.59
4	8.78	4.48	3.10	3.66	3.29	3.04	2.04	1.55	1.60	1.59
5	4.25	2.04	1.26	2.51	2.81	2.51	2.04	1.55	1.60	1.59
6	6.97	4.66	2.86	3.90	3.56	3.11	2.04	1.55	1.60	1.59
7	3.59	3.58	2.37	2.81	3.12	2.83	2.04	1.55	1.60	1.59
8	11.25	4.76	3.30	4.54	4.38	3.86	2.04	1.55	1.60	1.59
9	9.61	4.48	3.23	3.75	3.56	3.04	2.04	1.55	1.60	1.59
10	9.71	4.61	3.16	3.97	3.33	3.15	2.04	1.55	1.60	1.59

INDEX OF INDUSTRIAL PRODUCTION - SIC 36 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	4.97	3.23	1.69	3.30		6.84	9.64	9.08	9.08
2	1.00	3.59	3.05	1.69	2.72		-11.19	-15.92	-17.75	-17.75
3	1.00	3.72	3.10	1.69	2.78		-9.34	-13.70	-15.20	-15.20
4	1.00	4.98	3.17	1.69	3.29		7.83	9.78	8.59	8.59
5	1.00	2.51	2.66	1.69	2.21		-22.54	-31.82	-35.80	-35.80
6	1.00	4.58	3.33	1.69	3.17		-0.01	1.80	2.30	2.30
7	1.00	3.09	2.98	1.69	2.51		-19.12	-23.71	-25.94	-25.94
8	1.00	5.92	4.12	1.69	3.85		22.29	31.21	42.26	42.26
9	1.00	5.29	3.30	1.69	3.42		11.99	15.30	15.51	15.51
10	1.00	5.33	3.24	1.69	3.45		13.24	17.41	16.96	16.96

INDEX OF INDUSTRIAL PRODUCTION - SIC 37

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2270	1.4249	1.7308	2.0105	2.2840	2.5906	2.8155	2.9981	3.1999	3.4122
2	1.0000	1.1048	1.2621	1.4174	1.5942	1.8175	2.0899	2.2713	2.4185	2.5813	2.7526
3	1.0000	1.1544	1.3293	1.4417	1.6572	1.8784	2.1428	2.3288	2.4798	2.6467	2.8224
4	1.0000	1.4642	1.7381	1.9903	2.3032	2.6546	3.0347	3.2981	3.5119	3.7483	3.9971
5	1.0000	1.2615	1.3793	1.4948	1.6869	1.9023	2.1426	2.3286	2.4795	2.6464	2.8221
6	1.0000	1.1839	1.3758	1.5338	1.7653	2.0564	2.3843	2.5913	2.7593	2.9450	3.1405
7	1.0000	1.3339	1.5315	1.7128	1.9551	2.2476	2.5594	2.7816	2.9619	3.1613	3.3711
8	1.0000	1.6963	1.9795	2.2331	2.5527	2.9236	3.3043	3.5911	3.8240	4.0814	4.3522
9	1.0000	1.3047	1.5406	1.7565	2.0191	2.3237	2.6381	2.8670	3.0530	3.2585	3.4747
10	1.0000	1.0989	1.3942	1.6697	2.0493	2.4649	2.9107	3.1634	3.3685	3.5952	3.8339

INDEX OF INDUSTRIAL PRODUCTION - SIC 37 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	4.18	3.04	3.97	3.04	2.58	2.55	1.68	1.26	1.31	1.29
2	2.01	2.70	2.35	2.38	2.66	2.83	1.68	1.26	1.31	1.29
3	2.91	2.86	1.64	2.83	2.54	2.67	1.68	1.26	1.31	1.29
4	7.92	3.49	2.75	2.96	2.88	2.71	1.68	1.26	1.31	1.29
5	6.76	1.80	1.62	2.45	2.43	2.41	1.68	1.26	1.31	1.29
6	3.43	3.05	2.20	2.85	3.10	3.00	1.68	1.26	1.31	1.29
7	5.93	2.80	2.26	2.68	2.83	2.63	1.68	1.26	1.31	1.29
8	11.15	3.14	2.44	2.71	2.75	2.48	1.68	1.26	1.31	1.29
9	5.46	3.38	2.66	2.83	2.85	2.57	1.68	1.26	1.31	1.29
10	1.90	4.88	3.67	4.18	3.76	3.38	1.68	1.26	1.31	1.29

INDEX OF INDUSTRIAL PRODUCTION - SIC 37 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	3.55	2.57	1.39	2.49		-4.72	2.61	0.42	0.42
2	1.00	2.36	2.74	1.39	2.05		-15.61	-18.64	-18.99	-18.99
3	1.00	2.56	2.60	1.39	2.10		-11.12	-15.42	-16.94	-16.94
4	1.00	4.26	2.80	1.39	2.81		16.22	17.55	17.63	17.63
5	1.00	2.65	2.42	1.39	2.10		-7.77	-13.90	-16.95	-16.95
6	1.00	2.88	3.05	1.39	2.32		-8.01	-9.91	-7.58	-7.58
7	1.00	3.41	2.73	1.39	2.46		2.40	-0.22	-0.79	-0.79
8	1.00	4.80	2.61	1.39	2.99		32.36	30.28	28.09	28.09
9	1.00	3.58	2.71	1.39	2.52		3.01	3.05	2.26	2.26
10	1.00	3.65	3.57	1.39	2.72		-6.78	4.59	12.83	12.83

INDEX OF INDUSTRIAL PRODUCTION - SIC 38

LOW CASE

ANL/ARAM/ISTUM

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	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1019	1.4182	1.7353	2.0780	2.4281	2.8670	3.2933	3.7474	4.2693	4.8626
2	1.0000	1.0637	1.2417	1.4429	1.6612	1.9134	2.2294	2.5608	2.9139	3.3198	3.7810
3	1.0000	0.9779	1.1785	1.3674	1.5850	1.8197	2.1138	2.4281	2.7629	3.1477	3.5851
4	1.0000	1.1544	1.5075	1.8560	2.1860	2.5563	3.0248	3.4745	3.9535	4.5042	5.1301
5	1.0000	1.0312	1.1989	1.3670	1.5437	1.7776	2.0698	2.3776	2.7054	3.0822	3.5105
6	1.0000	1.1293	1.4080	1.6876	1.9667	2.3104	2.7379	3.1450	3.5786	4.0771	4.6436
7	1.0000	1.4816	1.9026	2.3406	2.6933	3.1402	3.6961	4.2456	4.8309	5.5038	6.2686
8	1.0000	1.1661	1.5296	1.8752	2.2207	2.6044	3.0850	3.5436	4.0323	4.5939	5.2322
9	1.0000	1.2244	1.5959	1.9532	2.3090	2.7021	3.1953	3.6703	4.1764	4.7581	5.4192
10	1.0000	1.0179	1.3784	1.7359	2.0972	2.5094	3.0169	3.4654	3.9433	4.4925	5.1167

INDEX OF INDUSTRIAL PRODUCTION - SIC 38 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.96	5.18	4.12	3.67	3.16	3.38	2.81	2.62	2.64	2.64
2	1.24	3.14	3.05	2.86	2.87	3.10	2.81	2.62	2.64	2.64
3	-0.45	3.80	3.02	3.00	2.80	3.04	2.81	2.62	2.64	2.64
4	2.91	5.48	4.25	3.33	3.18	3.42	2.81	2.62	2.64	2.64
5	0.62	3.06	2.66	2.46	2.86	3.09	2.81	2.62	2.64	2.64
6	2.46	4.51	3.69	3.11	3.27	3.45	2.81	2.62	2.64	2.64
7	8.18	5.13	4.23	2.85	3.12	3.31	2.81	2.62	2.64	2.64
8	3.12	5.58	4.16	3.44	3.24	3.44	2.81	2.62	2.64	2.64
9	4.13	5.44	4.12	3.40	3.19	3.41	2.81	2.62	2.64	2.64
10	0.36	6.25	4.72	3.85	3.65	3.75	2.81	2.62	2.64	2.64

INDEX OF INDUSTRIAL PRODUCTION - SIC 38 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	3.72	3.27	2.68	3.21		-1.24	2.16	2.26	2.26
2	1.00	2.57	2.99	2.68	2.70		-13.53	-18.33	-20.48	-20.48
3	1.00	2.33	2.92	2.68	2.59		-17.93	-22.08	-24.60	-24.60
4	1.00	3.99	3.30	2.68	3.32		4.99	7.47	7.89	7.89
5	1.00	2.19	2.98	2.68	2.54		-16.51	-24.11	-26.17	-26.17
6	1.00	3.44	3.36	2.68	3.12		-1.94	-3.31	-2.34	-2.34
7	1.00	5.08	3.22	2.68	3.74		32.50	32.41	31.83	31.83
8	1.00	4.07	3.34	2.68	3.37		6.52	9.17	10.04	10.04
9	1.00	4.27	3.30	2.68	3.44		11.14	13.52	13.97	13.97
10	1.00	3.77	3.70	2.68	3.32		-4.01	3.10	7.61	7.61

INDEX OF INDUSTRIAL PRODUCTION - SIC 39

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	0.9935	1.0683	1.1252	1.2056	1.2926	1.3878	1.4891	1.5837	1.6861	1.7945
2	1.0000	1.0359	1.1385	1.2469	1.3513	1.4689	1.5922	1.7084	1.8170	1.9344	2.0588
3	1.0000	1.0587	1.1797	1.2129	1.3445	1.4669	1.5780	1.6932	1.8008	1.9172	2.0404
4	1.0000	1.2047	1.4241	1.5811	1.7254	1.8676	2.0134	2.1603	2.2976	2.4461	2.6034
5	1.0000	1.0100	1.1476	1.2835	1.4261	1.5761	1.7284	1.8545	1.9723	2.0998	2.2348
6	1.0000	1.0000	1.1659	1.3001	1.4781	1.6862	1.9089	2.0482	2.1784	2.3191	2.4683
7	1.0000	1.0384	1.1874	1.2929	1.4160	1.5569	1.6945	1.8181	1.9337	2.0587	2.1910
8	1.0000	1.2364	1.4627	1.6331	1.7731	1.9203	2.0762	2.2277	2.3693	2.5224	2.6846
9	1.0000	1.1015	1.2627	1.3936	1.5277	1.6829	1.8437	1.9782	2.1040	2.2400	2.3840
10	1.0000	1.5035	1.8376	2.1298	2.4139	2.7223	3.0339	3.2553	3.4622	3.6860	3.9229

INDEX OF INDUSTRIAL PRODUCTION - SIC 39 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

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	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	-0.13	1.46	1.04	1.39	1.40	1.43	1.42	1.24	1.26	1.25
2	0.71	1.91	1.84	1.62	1.68	1.63	1.42	1.24	1.26	1.25
3	1.15	2.19	0.56	2.08	1.76	1.47	1.42	1.24	1.26	1.25
4	3.79	3.40	2.11	1.76	1.60	1.52	1.42	1.24	1.26	1.25
5	0.20	2.59	2.26	2.13	2.02	1.86	1.42	1.24	1.26	1.25
6	0.00	3.12	2.20	2.60	2.67	2.51	1.42	1.24	1.26	1.25
7	0.76	2.72	1.72	1.84	1.92	1.71	1.42	1.24	1.26	1.25
8	4.34	3.42	2.23	1.66	1.61	1.57	1.42	1.24	1.26	1.25
9	1.95	2.77	1.99	1.85	1.95	1.84	1.42	1.24	1.26	1.25
10	8.50	4.10	3.00	2.54	2.43	2.19	1.42	1.24	1.26	1.25

INDEX OF INDUSTRIAL PRODUCTION - SIC 39 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	0.94	1.42	1.29	1.18		-17.02	-23.02	-26.40	-26.40
2	1.00	1.52	1.65	1.29	1.45		-11.57	-13.72	-15.56	-15.56
3	1.00	1.49	1.61	1.29	1.44		-8.37	-14.15	-16.32	-16.32
4	1.00	2.76	1.56	1.29	1.93		10.61	10.17	6.77	6.77
5	1.00	1.79	1.94	1.29	1.62		-10.86	-8.95	-8.34	-8.34
6	1.00	1.97	2.59	1.29	1.82		-9.44	-5.63	1.23	1.23
7	1.00	1.75	1.81	1.29	1.58		-7.77	-9.59	-10.14	-10.14
8	1.00	2.91	1.59	1.29	1.99		13.61	13.22	10.10	10.10
9	1.00	2.14	1.90	1.29	1.75		-1.92	-2.46	-2.23	-2.23
10	1.00	4.50	2.31	1.29	2.77		42.73	54.13	60.89	60.89

INDEX OF INDUSTRIAL PRODUCTION - SIC 1 LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1056	1.1590	1.2055	1.2270	1.2584	1.2921	1.3400	1.3807	1.4136	1.4378
2	1.0000	1.1586	1.2961	1.3934	1.4728	1.5561	1.6443	1.7053	1.7571	1.7990	1.8298
3	1.0000	1.0714	1.1462	1.1895	1.2195	1.2566	1.3006	1.3488	1.3898	1.4229	1.4472
4	1.0000	1.1079	1.1938	1.2603	1.3233	1.3938	1.4696	1.5241	1.5704	1.6078	1.6353
5	1.0000	1.1040	1.1813	1.2439	1.3030	1.3602	1.4194	1.4720	1.5167	1.5529	1.5795
6	1.0000	1.1309	1.1843	1.2576	1.2800	1.3187	1.3650	1.4157	1.4587	1.4934	1.5190
7	1.0000	1.0772	1.1394	1.1818	1.1971	1.2094	1.2290	1.2745	1.3132	1.3445	1.3676
8	1.0000	1.1189	1.1942	1.2461	1.2635	1.2862	1.3121	1.3608	1.4021	1.4355	1.4601
9	1.0000	1.1551	1.3133	1.4497	1.5658	1.6822	1.7956	1.8622	1.9188	1.9645	1.9981
10	1.0000	1.1116	1.2034	1.3418	1.4282	1.5012	1.5797	1.6383	1.6880	1.7282	1.7578

INDEX OF INDUSTRIAL PRODUCTION - SIC 1 - AVERAGE ANNUAL GROWTH RATES LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	2.03	0.95	0.79	0.35	0.51	0.53	0.73	0.60	0.47	0.34
2	2.99	2.27	1.46	1.11	1.11	1.11	0.73	0.60	0.47	0.34
3	1.39	1.36	0.74	0.50	0.60	0.69	0.73	0.60	0.47	0.34
4	2.07	1.50	1.09	0.98	1.04	1.06	0.73	0.60	0.47	0.34
5	2.00	1.36	1.04	0.93	0.86	0.86	0.73	0.60	0.47	0.34
6	2.49	0.93	1.21	0.35	0.60	0.69	0.73	0.60	0.47	0.34
7	1.50	1.13	0.73	0.26	0.20	0.32	0.73	0.60	0.47	0.34
8	2.27	1.31	0.86	0.28	0.36	0.40	0.73	0.60	0.47	0.34
9	2.93	2.60	1.99	1.55	1.45	1.31	0.73	0.60	0.47	0.34
10	2.14	1.60	2.20	1.26	1.00	1.02	0.73	0.60	0.47	0.34

INDEX OF INDUSTRIAL PRODUCTION - SIC 1 - SUMMARY TABLE LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	1.03	0.52	0.54	0.73		-3.51	-7.61	-10.32	-10.32
2	1.00	1.95	1.11	0.54	1.22		7.91	10.90	14.13	14.13
3	1.00	1.00	0.65	0.54	0.74		-4.57	-8.17	-9.73	-9.73
4	1.00	1.41	1.05	0.54	0.99		-0.61	-0.35	2.00	2.00
5	1.00	1.33	0.86	0.54	0.92		-1.65	-1.88	-1.48	-1.48
6	1.00	1.24	0.65	0.54	0.84		-1.40	-3.62	-5.25	-5.25
7	1.00	0.90	0.26	0.54	0.63		-5.13	-9.86	-14.70	-14.70
8	1.00	1.18	0.38	0.54	0.76		-0.58	-4.85	-8.93	-8.93
9	1.00	2.27	1.38	0.54	1.39		9.34	17.90	24.63	24.63
10	1.00	1.80	1.01	0.54	1.13		0.19	7.54	9.64	9.64

INDEX OF INDUSTRIAL PRODUCTION - SIC 2

LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1056	1.1590	1.2055	1.2270	1.2584	1.2921	1.3400	1.3807	1.4136	1.4378
2	1.0000	1.1586	1.2961	1.3934	1.4728	1.5561	1.6443	1.7053	1.7571	1.7990	1.8298
3	1.0000	1.0714	1.1462	1.1895	1.2195	1.2566	1.3006	1.3488	1.3898	1.4229	1.4672
4	1.0000	1.1079	1.1938	1.2603	1.3233	1.3938	1.4696	1.5241	1.5704	1.6078	1.6353
5	1.0000	1.1040	1.1813	1.2439	1.3030	1.3602	1.4194	1.4720	1.5167	1.5529	1.5795
6	1.0000	1.1309	1.1843	1.2576	1.2800	1.3187	1.3650	1.4157	1.4587	1.4934	1.5190
7	1.0000	1.0772	1.1394	1.1818	1.1971	1.2094	1.2290	1.2745	1.3132	1.3445	1.3676
8	1.0000	1.1189	1.1942	1.2461	1.2635	1.2862	1.3121	1.3608	1.4021	1.4355	1.4601
9	1.0000	1.1551	1.3133	1.4497	1.5658	1.6822	1.7956	1.8622	1.9188	1.9645	1.9981
10	1.0000	1.1116	1.2034	1.3418	1.4282	1.5012	1.5797	1.6383	1.6880	1.7282	1.7578

INDEX OF INDUSTRIAL PRODUCTION - SIC 2 - AVERAGE ANNUAL GROWTH RATES

LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	2.03	0.95	0.79	0.35	0.51	0.53	0.73	0.60	0.47	0.34
2	2.99	2.27	1.46	1.11	1.11	1.11	0.73	0.60	0.47	0.34
3	1.39	1.36	0.74	0.50	0.60	0.69	0.73	0.60	0.47	0.34
4	2.07	1.50	1.09	0.98	1.04	1.06	0.73	0.60	0.47	0.34
5	2.00	1.36	1.04	0.93	0.86	0.86	0.73	0.60	0.47	0.34
6	2.49	0.93	1.21	0.35	0.60	0.69	0.73	0.60	0.47	0.34
7	1.50	1.13	0.73	0.26	0.20	0.32	0.73	0.60	0.47	0.34
8	2.27	1.31	0.86	0.28	0.36	0.40	0.73	0.60	0.47	0.34
9	2.93	2.60	1.99	1.55	1.45	1.31	0.73	0.60	0.47	0.34
10	2.14	1.60	2.20	1.26	1.00	1.02	0.73	0.60	0.47	0.34

INDEX OF INDUSTRIAL PRODUCTION - SIC 2 - SUMMARY TABLE

LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00		1.03	0.52	0.54	0.73	-3.51	-7.61	-10.32	-10.32
2	1.00		1.95	1.11	0.54	1.22	7.91	10.90	14.13	14.13
3	1.00		1.00	0.65	0.54	0.74	-4.57	-8.17	-9.73	-9.73
4	1.00		1.41	1.05	0.54	0.99	-0.61	-0.35	2.00	2.00
5	1.00		1.33	0.86	0.54	0.92	-1.65	-1.88	-1.48	-1.48
6	1.00		1.24	0.65	0.54	0.84	-1.40	-3.62	-5.25	-5.25
7	1.00		0.90	0.26	0.54	0.63	-5.13	-9.86	-14.70	-14.70
8	1.00		1.18	0.38	0.54	0.76	-0.58	-4.85	-8.93	-8.93
9	1.00		2.27	1.38	0.54	1.39	9.34	17.90	24.63	24.63
10	1.00		1.80	1.01	0.54	1.13	0.19	7.54	9.64	9.64

INDEX OF INDUSTRIAL PRODUCTION - SIC 10A LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0343	0.9963	1.0293	1.0480	1.0341	1.0524	1.1620	1.2726	1.3825	1.4896
2	1.0000	1.5414	1.5876	1.8338	1.6917	1.5389	1.5607	1.7232	1.8873	2.0502	2.2090
3	1.0000	1.0261	1.2499	1.4069	1.5381	1.6882	1.8714	2.0662	2.2629	2.4583	2.6487
4	1.0000	1.0849	1.3277	1.5134	1.6903	1.8714	2.0837	2.3006	2.5196	2.7372	2.9491
5	1.0000	1.1468	1.3253	1.4399	1.5371	1.6724	1.8604	2.0319	2.2254	2.4176	2.6047
6	1.00LJ	1.1693	1.2161	1.3463	1.4592	1.6141	1.8071	1.9952	2.1852	2.3739	2.5577
7	1.0000	1.4254	1.5639	1.7722	1.9209	2.1124	2.3518	2.5966	2.8438	3.0894	3.3286
8	1.0000	1.1542	1.3503	1.5641	1.7342	1.9307	2.1726	2.3988	2.6271	2.8540	3.0750
9	1.0000	1.3097	1.3826	1.4767	1.5298	1.6128	1.7447	1.9263	2.1097	2.2919	2.4693
10	1.0000	1.2128	1.3242	1.5549	1.7202	1.9529	2.2195	2.4505	2.6838	2.9155	3.1413

INDEX OF INDUSTRIAL PRODUCTION - SIC 10A - AVERAGE ANNUAL GROWTH RATES LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.68	-0.75	0.65	0.36	-0.27	0.35	2.00	1.84	1.67	1.50
2	9.04	0.59	2.93	-1.60	-1.88	0.28	2.00	1.84	1.67	1.50
3	0.52	4.02	2.40	1.80	1.88	2.08	2.00	1.84	1.67	1.50
4	1.64	4.12	2.65	2.24	2.06	2.17	2.00	1.84	1.67	1.50
5	2.78	2.94	1.67	1.32	1.70	1.93	2.00	1.84	1.67	1.50
6	3.18	0.79	2.05	1.62	2.04	2.29	2.00	1.84	1.67	1.50
7	7.35	1.87	2.53	1.63	1.92	2.17	2.00	1.84	1.67	1.50
8	2.91	3.19	2.98	2.09	2.17	2.39	2.00	1.84	1.67	1.50
9	5.54	1.09	1.33	0.71	1.06	1.58	2.00	1.84	1.67	1.50
10	3.93	1.77	3.26	2.04	2.57	2.59	2.00	1.84	1.67	1.50

INDEX OF INDUSTRIAL PRODUCTION - SIC 10A - SUMMARY TABLE LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	0.23	0.04	1.75	0.80		-25.22	-33.96	-43.73	-43.73
2	1.00	2.66	-0.80	1.75	1.60		19.15	6.60	-16.56	-16.56
3	1.00	2.18	1.98	1.75	1.97		-6.19	-3.08	0.05	0.05
4	1.00	2.66	2.11	1.75	2.19		-0.35	6.51	11.40	11.40
5	1.00	2.17	1.82	1.75	1.93		-0.53	-3.14	-1.61	-1.61
6	1.00	1.91	2.16	1.75	1.90		-8.72	-8.05	-3.38	-3.38
7	1.00	3.32	2.04	1.75	2.43		17.37	21.05	25.74	25.74
8	1.00	2.79	2.28	1.75	2.27		1.34	9.28	16.16	16.16
9	1.00	2.15	1.32	1.75	1.82		3.77	-3.60	-6.72	-6.72
10	1.00	2.75	2.58	1.75	2.32		-0.61	8.39	18.66	18.66

INDEX OF INDUSTRIAL PRODUCTION - SIC 11A LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0741	1.0212	0.9829	0.9117	0.8553	0.8271	0.8708	0.9156	0.9616	1.0091
2	1.0000	1.1571	1.0822	1.0938	0.9017	0.7489	0.6885	0.7249	0.7622	0.8004	0.8400
3	1.0000	0.6698	0.6135	0.5773	0.5655	0.5508	0.5455	0.5744	0.6039	0.6343	0.6656
4	1.0000	0.8862	0.8674	0.8457	0.8195	0.7989	0.8007	0.8431	0.8864	0.9309	0.9769
5	1.0000	0.7911	0.8332	0.8060	0.7726	0.7456	0.7324	0.7712	0.8108	0.8515	0.8936
6	1.0000	0.9455	1.0455	1.1860	1.2973	1.4121	1.5239	1.6066	1.6871	1.7718	1.8593
7	1.0000	0.9075	0.8886	0.8315	0.7922	0.7746	0.7704	0.8111	0.8528	0.8957	0.9399
8	1.0000	0.7712	0.7675	0.7700	0.7414	0.7329	0.7352	0.7741	0.8139	0.8548	0.8970
9	1.0000	0.9099	0.9330	0.9933	1.0047	1.0207	1.0523	1.1080	1.1650	1.2235	1.2840
10	1.0000	0.9099	0.9064	0.9156	0.9009	0.8882	0.8856	0.9325	0.9804	1.0296	1.0805

INDEX OF INDUSTRIAL PRODUCTION - SIC 11A - AVERAGE ANNUAL GROWTH RATES LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.44	-1.00	-0.76	-1.49	-1.27	-0.67	1.04	1.01	0.98	0.97
2	2.96	-1.33	0.21	-3.79	-3.64	-1.67	1.04	1.01	0.98	0.97
3	-7.70	-1.74	-1.21	-0.41	-0.53	-0.19	1.04	1.01	0.98	0.97
4	-2.39	-0.43	-0.50	-0.63	-0.51	0.04	1.04	1.01	0.98	0.97
5	-4.58	1.04	-0.66	-0.84	-0.71	-0.36	1.04	1.01	0.98	0.97
6	-1.11	2.03	2.55	1.81	1.71	1.54	1.04	1.01	0.98	0.97
7	-1.92	-0.42	-1.32	-0.96	-0.45	-0.11	1.04	1.01	0.98	0.97
8	-5.06	-0.10	0.07	-0.75	-0.23	0.06	1.04	1.01	0.98	0.97
9	-1.87	0.50	1.26	0.23	0.32	0.61	1.04	1.01	0.98	0.97
10	-1.87	-0.08	0.20	-0.32	-0.28	-0.06	1.04	1.01	0.98	0.97

INDEX OF INDUSTRIAL PRODUCTION - SIC 11A - SUMMARY TABLE LOW CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	-0.46	-0.97	1.00	0.02		14.00	4.71	-3.40	-3.40
2	1.00	-0.52	-2.66	1.00	-0.35		20.80	3.55	-19.59	-19.59
3	1.30	-2.81	-0.36	1.00	-0.81		-31.52	-35.05	-36.28	-36.28
4	1.00	-0.99	-0.23	1.00	-0.05		-3.18	-5.89	-6.48	-6.48
5	1.00	-1.28	-0.53	1.00	-0.22		-6.99	-11.28	-14.46	-14.46
6	1.00	1.31	1.62	1.00	1.25		16.71	48.98	77.99	77.99
7	1.00	-1.16	-0.28	1.00	-0.12		-0.81	-9.02	-10.02	-10.02
8	1.00	-1.48	-0.08	1.00	-0.22		-14.33	-14.85	-14.13	-14.13
9	1.00	0.02	0.46	1.00	0.50		4.15	15.39	22.92	22.92
10	1.00	-0.52	-0.17	1.00	0.15		1.17	3.47	3.44	3.44

INDEX OF INDUSTRIAL PRODUCTION - SIC 15

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1029	1.0965	1.1519	1.1809	1.2524	1.2910	1.3443	1.3849	1.4124	1.4277
2	1.0000	1.1599	1.2434	1.1367	1.1785	1.1991	1.1797	1.2284	1.2655	1.2906	1.3046
3	1.0000	0.9255	0.9442	0.9318	0.9834	1.0216	1.0521	1.0955	1.1286	1.1510	1.1634
4	1.0000	1.0829	0.9974	0.9844	1.0956	1.1920	1.2829	1.3359	1.3762	1.4035	1.4187
5	1.0000	0.9131	0.9255	0.8726	0.9387	1.0195	1.0475	1.0907	1.1237	1.1460	1.1584
6	1.0000	0.8921	0.9488	1.1087	1.1112	1.1950	1.3097	1.3637	1.4049	1.4328	1.4483
7	1.0000	0.9330	0.9397	0.9121	0.9590	1.0194	1.0436	1.0867	1.1196	1.1418	1.1541
8	1.0000	1.0921	1.0630	1.1062	1.1618	1.2118	1.2773	1.3300	1.3702	1.3974	1.4125
9	1.0000	1.0826	1.0594	1.1625	1.2250	1.2921	1.3685	1.4250	1.4680	1.4972	1.5134
10	1.0000	0.8009	0.8336	0.9259	0.9428	1.0103	1.0737	1.1180	1.1518	1.1747	1.1874

INDEX OF INDUSTRIAL PRODUCTION - SIC

15 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.98	-0.12	0.99	0.50	1.18	0.61	0.81	0.60	0.39	0.22
2	2.92	1.49	-1.78	0.72	0.35	-0.33	0.81	0.60	0.39	0.22
3	-1.54	0.40	-0.26	1.08	0.76	0.59	0.81	0.60	0.39	0.22
4	1.61	-1.63	-0.26	2.16	1.70	1.48	0.81	0.60	0.39	0.22
5	-1.80	0.27	-1.17	1.47	1.67	0.54	0.81	0.60	0.39	0.22
6	-2.26	1.24	3.16	0.05	1.46	1.85	0.81	0.60	0.39	0.22
7	-1.38	0.14	-0.60	1.01	1.23	0.47	0.81	0.60	0.39	0.22
8	1.78	-0.54	0.80	0.99	0.85	1.06	0.81	0.60	0.39	0.22
9	1.60	-0.53	1.97	1.05	1.07	1.15	0.81	0.60	0.39	0.22
10	-4.34	0.80	2.12	0.36	1.39	1.23	0.81	0.60	0.39	0.22

INDEX OF INDUSTRIAL PRODUCTION - SIC

15 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	0.83	0.90	0.50	0.71		9.14	9.57	8.25	8.25
2	1.00	0.82	0.01	0.50	0.53		23.77	9.36	-1.08	-1.08
3	1.00	-0.08	0.68	0.50	0.30		-6.02	-8.75	-11.78	-11.78
4	1.00	0.46	1.59	0.50	0.70		-0.72	1.66	7.57	7.57
5	1.00	-0.32	1.10	0.50	0.29		-7.87	-12.90	-12.17	-12.17
6	1.00	0.53	1.66	0.50	0.74		-5.56	3.11	9.82	9.82
7	1.00	-0.21	0.85	0.50	0.29		-6.46	-11.02	-12.49	-12.49
8	1.00	0.75	0.95	0.50	0.69		5.80	7.81	7.10	7.10
9	1.00	1.02	1.11	0.50	0.83		4.95	13.67	14.75	14.75
10	1.00	-0.29	1.31	0.50	0.34		-17.03	-12.52	-9.97	-9.97

INDEX OF INDUSTRIAL PRODUCTION - SIC 331

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1726	1.3224	1.4856	1.6633	1.8501	2.0337	2.2070	2.3646	2.5009	2.6099
2	1.0000	0.9328	1.0029	1.0670	1.1757	1.3185	1.4657	1.5906	1.7042	1.8025	1.8810
3	1.0000	0.9736	1.0762	1.1249	1.2197	1.3486	1.4932	1.6204	1.7361	1.8363	1.9162
4	1.0000	1.2962	1.5092	1.6836	1.8558	2.0565	2.2655	2.4586	2.6341	2.7860	2.9074
5	1.0000	1.1063	1.1774	1.2660	1.3615	1.4901	1.6293	1.7681	1.8944	2.0036	2.0909
6	1.0000	1.0547	1.2284	1.3886	1.5216	1.6849	1.8648	2.0237	2.1682	2.2932	2.3931
7	1.0000	1.2408	1.3773	1.4841	1.5984	1.7464	1.8956	2.0572	2.2040	2.3311	2.4327
8	1.0000	1.0243	1.2291	1.4336	1.6817	1.9709	2.2389	2.4296	2.6031	2.7532	2.8731
9	1.0000	1.0699	1.2615	1.3780	1.4982	1.6375	1.7576	1.9074	2.0436	2.1614	2.2556
10	1.0000	1.1386	1.3436	1.5105	1.6666	1.8497	2.0491	2.2236	2.3824	2.5198	2.6295

INDEX OF INDUSTRIAL PRODUCTION - SIC 331 - AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	3.24	2.43	2.36	2.29	2.15	1.91	1.65	1.39	1.13	0.86
2	-1.38	1.46	1.25	1.96	2.32	2.14	1.65	1.39	1.13	0.86
3	-0.53	2.02	0.89	1.63	2.03	2.06	1.65	1.39	1.13	0.86
4	5.33	3.09	2.21	1.97	2.08	1.95	1.65	1.39	1.13	0.86
5	2.04	1.25	1.46	1.46	1.82	1.80	1.65	1.39	1.13	0.86
6	1.07	3.10	2.48	1.85	2.06	2.05	1.65	1.39	1.13	0.86
7	4.41	2.11	1.50	1.49	1.79	1.65	1.65	1.39	1.13	0.86
8	0.48	3.71	3.13	3.24	3.22	2.58	1.65	1.39	1.13	0.86
9	1.36	3.35	1.78	1.69	1.79	1.43	1.65	1.39	1.13	0.86
10	2.63	3.37	2.37	1.99	2.11	2.07	1.65	1.39	1.13	0.86

INDEX OF INDUSTRIAL PRODUCTION - SIC 331 - SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.58	2.03	1.25	1.94		5.55	9.12	8.79	8.79
2	1.00	0.81	2.23	1.25	1.27		-19.95	-22.87	-21.59	-21.59
3	1.00	1.00	2.04	1.25	1.31		-14.10	-19.98	-20.12	-20.12
4	1.00	3.14	2.02	1.25	2.16		20.47	21.75	21.19	21.19
5	1.00	1.55	1.81	1.25	1.49		-6.02	-10.68	-12.84	-12.84
6	1.00	2.12	2.05	1.25	1.76		-1.95	-0.17	-0.24	-0.24
7	1.00	2.37	1.72	1.25	1.79		9.94	4.86	1.41	1.41
8	1.00	2.63	2.90	1.25	2.13		-1.89	10.33	19.77	19.77
9	1.00	2.04	1.61	1.25	1.64		0.70	-1.71	-5.98	-5.98
10	1.00	2.59	2.09	1.25	1.95		7.25	9.34	9.61	9.61

INDEX OF INDUSTRIAL PRODUCTION - SIC 3334

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1.1132	1.0092	0.9994	1.0053	1.0913	1.2029	1.3275	1.4283	1.4787	1.4955	1.4451
3	1.1132	1.0695	1.0469	1.0470	1.1285	1.2290	1.3474	1.4497	1.5009	1.5179	1.4668
4	1.1132	1.4442	1.5107	1.5766	1.7003	1.8502	2.0185	2.1718	2.2484	2.2740	2.1973
5	1.1132	1.2910	1.2625	1.2872	1.3618	1.4665	1.5931	1.7140	1.7745	1.7947	1.7342
6	1.1132	1.1810	1.2509	1.3130	1.4186	1.5456	1.6938	1.8224	1.8867	1.9082	1.8438
7	1.1132	1.4082	1.4240	1.4475	1.5328	1.6470	1.7731	1.9078	1.9751	1.9976	1.9302
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1.1132	1.3008	1.4129	1.5061	1.6368	1.7887	1.9683	2.1178	2.1925	2.2174	2.1427

INDEX OF INDUSTRIAL PRODUCTION - SIC 3334- AVERAGE ANNUAL GROWTH RATES

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	-1.94	-0.19	0.12	1.66	1.97	1.99	1.47	0.70	0.23	-0.68
3	-0.80	-0.42	0.00	1.51	1.72	1.86	1.47	0.70	0.23	-0.68
4	5.34	0.90	0.86	1.52	1.70	1.76	1.47	0.70	0.23	-0.68
5	3.01	-0.45	0.39	1.13	1.49	1.67	1.47	0.70	0.23	-0.68
6	1.19	0.99	1.14	1.56	1.73	1.85	1.47	0.70	0.23	-0.68
7	4.81	0.22	0.33	1.15	1.45	1.49	1.47	0.70	0.23	-0.68
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	3.17	1.67	1.28	1.68	1.79	1.93	1.47	0.70	0.23	-0.68

INDEX OF INDUSTRIAL PRODUCTION - SIC 3334- SUMMARY TABLE

LOW CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2	1.11	-0.10	1.98	0.43	0.52	-21.37	-22.61	-20.73	-20.73	-20.73
3	1.11	0.07	1.79	0.43	0.55	-17.63	-19.97	-19.54	-19.54	-19.54
4	1.11	2.14	1.73	0.43	1.37	18.85	20.59	20.54	20.54	20.54
5	1.11	1.01	1.58	0.43	0.89	-0.67	-3.42	-4.86	-4.86	-4.86
6	1.11	1.22	1.79	0.43	1.01	-2.37	0.61	1.15	1.15	1.15
7	1.11	1.61	1.47	0.43	1.11	12.03	8.71	5.89	5.89	5.89
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	1.11	1.95	1.86	0.43	1.32	11.16	16.08	17.54	17.54	17.54

INDEX OF INDUSTRIAL PRODUCTION - SIC 33R

LOH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1366	1.1887	1.2618	1.3657	1.4909	1.6196	1.6861	1.6644	1.5644	1.4117
2	1.0000	0.9878	0.9588	0.9589	1.0126	1.1116	1.2175	1.2675	1.2512	1.1760	1.0613
3	1.0000	0.9647	0.9959	0.9995	1.0487	1.1322	1.2309	1.2815	1.2650	1.1890	1.0730
4	1.0000	1.1790	1.2688	1.3291	1.4176	1.5478	1.6846	1.7538	1.7312	1.6272	1.4684
5	1.0000	1.0526	1.0174	1.0237	1.0581	1.1310	1.2166	1.2665	1.2502	1.1751	1.0605
6	1.0000	1.0117	1.0769	1.1426	1.2049	1.3043	1.4206	1.4789	1.4599	1.3722	1.2383
7	1.0000	1.1604	1.1923	1.2140	1.2606	1.3496	1.4491	1.5085	1.4891	1.3996	1.2631
8	1.0000	0.9939	1.0903	1.1510	1.2802	1.4554	1.6298	1.6966	1.6748	1.5742	1.4206
9	1.0000	1.0160	1.1144	1.1567	1.2240	1.3233	1.4111	1.4691	1.4501	1.3630	1.2300
10	1.0000	1.0656	1.1531	1.2074	1.2749	1.3773	1.4961	1.5575	1.5374	1.4451	1.3041

INDEX OF INDUSTRIAL PRODUCTION - SIC 33R - AVERAGE ANNUAL GROWTH RATES

LOH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	2.59	0.90	1.20	1.59	1.77	1.67	0.81	-0.26	-1.23	-2.03
2	-0.25	-0.59	0.00	1.10	1.88	1.84	0.81	-0.26	-1.23	-2.03
3	-0.72	0.64	0.07	0.96	1.55	1.69	0.81	-0.26	-1.23	-2.03
4	3.35	1.48	0.93	1.30	1.77	1.71	0.81	-0.26	-1.23	-2.03
5	1.03	-0.68	0.12	0.66	1.34	1.47	0.81	-0.26	-1.23	-2.03
6	0.23	1.26	1.19	1.07	1.60	1.72	0.81	-0.26	-1.23	-2.03
7	3.02	0.54	0.36	0.76	1.37	1.43	0.81	-0.26	-1.23	-2.03
8	-0.12	1.87	1.09	2.15	2.60	2.29	0.81	-0.26	-1.23	-2.03
9	0.32	1.87	0.75	1.14	1.57	1.29	0.81	-0.26	-1.23	-2.03
10	1.28	1.59	0.92	1.09	1.56	1.67	0.81	-0.26	-1.23	-2.03

INDEX OF INDUSTRIAL PRODUCTION - SIC 33R - SUMMARY TABLE

LOH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	1.57	1.72	-0.68	0.69		7.51	12.43	12.66	12.66
2	1.00	0.06	1.86	-0.68	0.12		-13.28	-16.64	-15.31	-15.31
3	1.00	0.24	1.62	-0.68	0.14		-9.93	-13.67	-14.37	-14.37
4	1.00	1.76	1.74	-0.68	0.77		14.76	16.70	17.18	17.18
5	1.00	0.28	1.41	-0.68	0.12		-7.99	-12.90	-15.37	-15.37
6	1.00	0.94	1.66	-0.68	0.43		-2.60	-0.81	-1.18	-1.18
7	1.00	1.16	1.40	-0.68	0.47		7.84	3.78	0.80	0.80
8	1.00	1.24	2.44	-0.68	0.70		-1.39	5.39	13.37	13.37
9	1.00	1.02	1.43	-0.68	0.41		0.79	0.76	-1.84	-1.84
10	1.00	1.22	1.61	-0.68	0.53		4.29	4.95	4.07	4.07

A.3 HIGH SCENARIO

INDEX OF INDUSTRIAL PRODUCTION - SIC 20

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0843	1.2616	1.4369	1.5987	1.8184	2.0706	2.3305	2.5633	2.8060	3.0531
2	1.0000	1.1135	1.2368	1.3637	1.4980	1.6752	1.8876	2.1246	2.3368	2.5580	2.7833
3	1.0000	1.1125	1.2652	1.3938	1.5592	1.7567	1.9850	2.2342	2.4573	2.6900	2.9268
4	1.0000	1.1758	1.3947	1.5867	1.7879	2.0104	2.2608	2.5446	2.7988	3.0638	3.3335
5	1.0000	1.0947	1.2176	1.3654	1.5237	1.7069	1.9178	2.1585	2.3741	2.5989	2.8277
6	1.0000	1.1778	1.3871	1.5844	1.7859	2.0071	2.2646	2.5489	2.8035	3.0689	3.3391
7	1.0000	1.1230	1.2973	1.4654	1.6406	1.8361	2.0570	2.3152	2.5465	2.7876	3.0330
8	1.0000	1.1894	1.4136	1.6268	1.8272	2.0531	2.3037	2.5929	2.8519	3.1219	3.3967
9	1.0000	1.1401	1.3513	1.5596	1.7600	1.9920	2.2468	2.5288	2.7814	3.0447	3.3128
10	1.0000	1.1616	1.3982	1.6199	1.8125	2.0248	2.2754	2.5610	2.8169	3.0835	3.3550

INDEX OF INDUSTRIAL PRODUCTION - SIC 20 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.63	3.08	2.64	2.16	2.61	2.63	2.39	1.92	1.83	1.70
2	2.17	2.12	1.97	1.90	2.26	2.42	2.39	1.92	1.83	1.70
3	2.15	2.61	1.96	2.27	2.41	2.47	2.39	1.92	1.83	1.70
4	3.29	3.47	2.61	2.42	2.37	2.38	2.39	1.92	1.83	1.70
5	1.83	2.15	2.32	2.22	2.30	2.36	2.39	1.92	1.83	1.70
6	3.33	3.33	2.69	2.42	2.36	2.44	2.39	1.92	1.83	1.70
7	2.35	2.93	2.47	2.28	2.28	2.30	2.39	1.92	1.83	1.70
8	3.53	3.51	2.85	2.35	2.36	2.33	2.39	1.92	1.83	1.70
9	2.66	3.46	2.91	2.45	2.51	2.44	2.39	1.92	1.83	1.70
10	3.04	3.78	2.99	2.27	2.24	2.36	2.39	1.92	1.83	1.70

INDEX OF INDUSTRIAL PRODUCTION - SIC 20 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.37	2.62	1.96	2.26		-4.59	-4.81	-2.65	-2.65
2	1.00	2.04	2.34	1.96	2.07		-6.47	-10.80	-11.25	-11.25
3	1.00	2.25	2.44	1.96	2.17		-4.32	-7.16	-6.67	-6.67
4	1.00	2.95	2.37	1.96	2.44		5.47	6.46	6.30	6.30
5	1.00	2.13	2.33	1.96	2.10		-7.92	-9.27	-9.83	-9.83
6	1.00	2.94	2.40	1.96	2.44		4.90	6.34	6.47	6.47
7	1.00	2.51	2.29	1.96	2.24		-1.89	-2.31	-3.29	-3.29
8	1.00	3.06	2.34	1.96	2.48		6.90	8.80	8.31	8.31
9	1.00	2.87	2.47	1.96	2.42		2.19	4.80	5.63	5.63
10	1.00	3.02	2.30	1.96	2.45		5.74	7.93	6.98	6.98

INDEX OF INDUSTRIAL PRODUCTION - SIC 21

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1.0000	1.0543	1.2280	1.3908	1.5397	1.7238	1.9074	2.1369	2.3445	2.5619	2.7857
3	1.0000	0.9092	0.9903	1.0780	1.1814	1.2977	1.4150	1.5853	1.7393	1.9006	2.0666
4	1.0000	1.0384	1.1539	1.2676	1.3889	1.5283	1.6716	1.8727	2.0547	2.2453	2.4413
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

INDEX OF INDUSTRIAL PRODUCTION - SIC 21 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1.06	3.10	2.52	2.05	2.28	2.04	2.30	1.87	1.79	1.69
3	-1.88	1.72	1.71	1.85	1.90	1.75	2.30	1.87	1.79	1.69
4	0.76	2.13	1.90	1.84	1.93	1.81	2.30	1.87	1.79	1.69
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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INDEX OF INDUSTRIAL PRODUCTION - SIC 21 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
2	1.00	2.18	2.16	1.91	2.07		9.25	12.38	14.58	14.58
3	1.00	0.84	1.82	1.91	1.46		-11.90	-13.77	-15.00	-15.00
4	1.00	1.66	1.87	1.91	1.80		2.65	1.38	0.42	0.42
5	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00

INDEX OF INDUSTRIAL PRODUCTION - SIC 22

HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0033	1.2037	1.3086	1.4649	1.6807	1.8852	2.0636	2.1876	2.3064	2.4140
2	1.0000	1.0077	1.2241	1.2567	1.4013	1.5997	1.8020	1.9725	2.0911	2.2047	2.3076
3	1.0000	1.1406	1.4944	1.6424	1.8735	2.1343	2.3937	2.6201	2.7776	2.9285	3.0651
4	1.0000	1.1084	1.4092	1.5449	1.7479	1.9790	2.2088	2.4178	2.5632	2.7024	2.8285
5	1.0000	1.0862	1.3023	1.5069	1.7472	2.0202	2.2989	2.5164	2.6676	2.8125	2.9437
6	1.0000	1.1368	1.3964	1.5210	1.6672	1.8452	2.0387	2.2316	2.3657	2.4943	2.6106
7	1.0000	1.1340	1.3105	1.2835	1.4711	1.6570	1.7600	1.9265	2.0423	2.1533	2.2537
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	1.0000	1.0984	1.2268	1.2857	1.4334	1.6520	1.8289	2.0019	2.1222	2.2375	2.3419
10	1.0000	1.0789	1.3585	1.4870	1.7039	1.9971	2.2930	2.5099	2.6608	2.8054	2.9362

INDEX OF INDUSTRIAL PRODUCTION - SIC 22 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.07	3.71	1.69	2.28	2.79	2.32	1.82	1.17	1.06	0.92
2	0.15	3.97	0.53	2.20	2.68	2.41	1.82	1.17	1.06	0.92
3	2.67	5.55	1.91	2.67	2.64	2.32	1.82	1.17	1.06	0.92
4	2.08	4.92	1.86	2.50	2.51	2.22	1.82	1.17	1.06	0.92
5	1.67	3.69	2.96	3.00	2.95	2.62	1.82	1.17	1.06	0.92
6	2.60	4.20	1.72	1.85	2.05	2.01	1.82	1.17	1.06	0.92
7	2.55	2.94	-0.42	2.77	2.41	1.21	1.82	1.17	1.06	0.92
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	1.90	2.23	0.94	2.20	2.88	2.05	1.82	1.17	1.06	0.92
10	1.53	4.72	1.82	2.76	3.23	2.80	1.82	1.17	1.06	0.92

INDEX OF INDUSTRIAL PRODUCTION - SIC 22 - SUMMARY TABLE

HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00		1.93	2.55	1.24	1.78	-9.16	-9.14	-8.33	-8.33
2	1.00		1.70	2.55	1.24	1.69	-7.62	-13.08	-12.38	-12.38
3	1.00		3.19	2.48	1.24	2.27	12.78	16.20	16.39	16.39
4	1.00		2.83	2.37	1.24	2.10	6.35	8.41	7.40	7.40
5	1.00		2.83	2.78	1.24	2.18	-1.72	8.37	11.78	11.78
6	1.00		2.59	2.03	1.24	1.94	5.38	3.41	-0.87	-0.87
7	1.00		1.95	1.81	1.24	1.64	-1.10	-8.76	-14.42	-14.42
8	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	1.00		1.82	2.47	1.24	1.72	-7.42	-11.09	-11.07	-11.07
10	1.00		2.70	3.01	1.24	2.18	2.52	5.68	11.50	11.50

INDEX OF INDUSTRIAL PRODUCTION - SIC 23

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0625	1.1856	1.2383	1.3317	1.4574	1.6407	1.8813	2.0918	2.3043	2.5122
2	1.0000	1.0441	1.2123	1.3182	1.4701	1.6265	1.8300	2.0982	2.3331	2.5701	2.8019
3	1.0000	1.0667	1.2139	1.3018	1.4368	1.5755	1.7624	2.0207	2.2469	2.4752	2.6985
4	1.0000	1.1976	1.4404	1.5851	1.7592	1.9397	2.1921	2.5135	2.7948	3.0788	3.3565
5	1.0000	1.0783	1.2147	1.3311	1.5187	1.7206	1.9793	2.2694	2.5235	2.7798	3.0306
6	1.0000	1.0085	1.1879	1.2663	1.3818	1.5019	1.6708	1.9157	2.1302	2.3466	2.5583
7	1.0000	1.0724	1.2810	1.3590	1.5263	1.7151	1.9656	2.2537	2.5060	2.7606	3.0096
8	1.0000	1.1195	1.2531	1.3927	1.4973	1.5715	1.7125	1.9635	2.1833	2.4051	2.6220
9	1.0000	1.2432	1.4311	1.4818	1.6474	1.8441	2.1119	2.4215	2.6926	2.9661	3.2337
10	1.0000	1.1368	1.5062	1.6143	1.8527	2.1330	2.4950	2.8607	3.1809	3.5040	3.8201

INDEX OF INDUSTRIAL PRODUCTION - SIC 23 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.22	2.22	0.87	1.46	1.82	2.40	2.77	2.14	1.95	1.74
2	0.87	3.03	1.69	2.20	2.04	2.38	2.77	2.14	1.95	1.74
3	1.30	2.62	1.41	1.99	1.86	2.27	2.77	2.14	1.95	1.74
4	3.67	3.76	1.93	2.11	1.97	2.48	2.77	2.14	1.95	1.74
5	1.52	2.41	1.85	2.67	2.53	2.84	2.77	2.14	1.95	1.74
6	0.17	3.33	1.29	1.76	1.68	2.15	2.77	2.14	1.95	1.74
7	1.41	3.62	1.19	2.35	2.36	2.76	2.77	2.14	1.95	1.74
8	2.28	2.28	2.14	1.46	0.97	1.73	2.77	2.14	1.95	1.74
9	4.45	2.85	0.70	2.14	2.28	2.75	2.77	2.14	1.95	1.74
10	2.60	5.79	1.40	2.79	2.86	3.18	2.77	2.14	1.95	1.74

INDEX OF INDUSTRIAL PRODUCTION - SIC 23 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030	1990	2000	2010	2030
1	1.00	1.44	2.11	2.15	1.86	-8.28	-13.65	-15.25	-15.25
2	1.00	1.95	2.21	2.15	2.08	-6.22	-4.68	-5.48	-5.48
3	1.00	1.83	2.06	2.15	2.01	-6.09	-6.83	-8.97	-8.97
4	1.00	2.86	2.22	2.15	2.45	11.43	14.07	13.23	13.23
5	1.00	2.11	2.68	2.15	2.24	-6.03	-1.52	2.23	2.23
6	1.00	1.63	1.92	2.15	1.90	-8.10	-10.40	-13.70	-13.70
7	1.00	2.14	2.56	2.15	2.23	-0.90	-1.03	1.53	1.53
8	1.00	2.04	1.35	2.15	1.95	-3.05	-2.91	-11.55	-11.55
9	1.00	2.53	2.52	2.15	2.38	10.71	6.82	9.09	9.09
10	1.00	3.13	3.02	2.15	2.72	16.52	20.13	28.87	28.87

INDEX OF INDUSTRIAL PRODUCTION - SIC 24

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2719	1.5213	1.5065	1.6017	1.7559	1.9274	2.0318	2.0761	2.1120	2.1359
2	1.0000	1.3493	1.8214	2.0439	2.2789	2.6109	3.0196	3.1832	3.2526	3.3088	3.3463
3	1.0000	1.2661	1.6454	1.7988	2.0628	2.3610	2.6805	2.8257	2.8873	2.9372	2.9705
4	1.0000	1.3092	1.7174	1.9173	2.1689	2.4535	2.7738	2.9241	2.9878	3.0394	3.0739
5	1.0000	1.3229	1.7123	1.9094	2.1704	2.5061	2.8909	3.0475	3.1139	3.1677	3.2037
6	1.0000	1.3319	1.7076	1.8565	1.9925	2.2048	2.4803	2.6147	2.6717	2.7178	2.7486
7	1.0000	1.1923	1.4750	1.6202	1.7815	1.9607	2.1644	2.2817	2.3315	2.3717	2.3986
8	1.0000	1.1393	1.4042	1.5256	1.6762	1.8506	2.0399	2.1504	2.1973	2.2352	2.2606
9	1.0000	1.1817	1.4035	1.4764	1.6261	1.8480	2.0400	2.1505	2.1974	2.2353	2.2607
10	1.0000	1.1543	1.4553	1.6033	1.7252	1.8446	2.0106	2.1196	2.1658	2.2032	2.2282

INDEX OF INDUSTRIAL PRODUCTION - SIC 24 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	4.93	3.65	-0.20	1.23	1.86	1.88	1.06	0.43	0.34	0.23
2	6.18	6.18	2.33	2.20	2.76	2.95	1.06	0.43	0.34	0.23
3	4.83	5.38	1.80	2.78	2.74	2.57	1.06	0.43	0.34	0.23
4	5.54	5.58	2.23	2.50	2.50	2.48	1.06	0.43	0.34	0.23
5	5.76	5.30	2.20	2.60	2.92	2.90	1.06	0.43	0.34	0.23
6	5.90	5.10	1.69	1.42	2.05	2.38	1.06	0.43	0.34	0.23
7	3.58	4.35	1.90	1.92	1.93	2.00	1.06	0.43	0.34	0.23
8	2.64	4.27	1.67	1.90	2.00	1.97	1.06	0.43	0.34	0.23
9	3.40	3.50	1.02	1.95	2.59	2.00	1.06	0.43	0.34	0.23
10	2.91	4.74	1.96	1.48	1.35	1.74	1.06	0.43	0.34	0.23

INDEX OF INDUSTRIAL PRODUCTION - SIC 24 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.38	1.87	0.52	1.53		-4.10	-16.07	-19.78	-19.78
2	1.00	4.20	2.85	0.52	2.45		14.82	19.41	25.67	25.67
3	1.00	3.69	2.65	0.52	2.20		3.72	8.09	11.56	11.56
4	1.00	3.95	2.49	0.52	2.27		8.26	13.65	15.44	15.44
5	1.00	3.95	2.91	0.52	2.36		7.94	13.73	20.32	20.32
6	1.00	3.51	2.21	0.52	2.04		7.64	4.40	3.23	3.23
7	1.00	2.93	1.97	0.52	1.77		-7.02	-6.65	-9.92	-9.92
8	1.00	2.62	1.98	0.52	1.64		-11.48	-12.17	-15.10	-15.10
9	1.00	2.46	2.29	0.52	1.64		-11.52	-14.79	-15.10	-15.10
10	1.00	2.76	1.54	0.52	1.62		-8.26	-9.60	-16.32	-16.32

INDEX OF INDUSTRIAL PRODUCTION - SIC 25

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.00	1.2669	1.4750	1.6509	1.8782	2.2062	2.5467	2.8122	2.9873	3.1562	3.3114
2	1.0000	1.3559	1.7157	1.9236	2.2427	2.6620	3.1041	3.4278	3.6411	3.8469	4.0361
3	1.0000	1.3990	1.7320	1.9557	2.2911	2.7029	3.1398	3.4672	3.6830	3.8912	4.0825
4	1.0000	1.4465	1.8601	2.1195	2.4740	2.8926	3.3476	3.6966	3.9268	4.1487	4.3527
5	1.0000	1.3324	1.6443	1.8677	2.1384	2.4577	2.8010	3.0930	3.2855	3.4712	3.6419
6	1.0000	1.4355	1.7933	2.0288	2.3163	2.6775	3.0928	3.4153	3.6279	3.8330	4.0214
7	1.0000	1.5578	1.9204	2.1587	2.5072	2.9218	3.3687	3.7199	3.9514	4.1748	4.3800
8	1.0000	1.3733	1.9208	2.2780	2.6335	3.0690	3.4328	3.7907	4.0267	4.2543	4.4634
9	1.0000	1.5287	1.9490	2.2491	2.6701	3.2131	3.7629	4.1552	4.4139	4.6634	4.8926
10	1.0000	1.3180	1.7013	2.0260	2.3795	2.8432	3.3854	3.7384	3.9711	4.1955	4.4018

INDEX OF INDUSTRIAL PRODUCTION - SIC

25 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	4.85	3.09	2.28	2.61	3.27	2.91	2.00	1.22	1.11	0.96
2	6.28	4.82	2.31	3.12	3.49	3.12	2.00	1.22	1.11	0.96
3	6.95	4.36	2.46	3.22	3.36	3.04	2.00	1.22	1.11	0.96
4	7.66	4.93	2.87	3.14	3.18	2.97	2.00	1.22	1.11	0.96
5	5.91	4.30	2.58	2.74	2.82	2.65	2.00	1.22	1.11	0.96
6	7.50	4.55	2.50	2.69	2.94	2.93	2.00	1.22	1.11	0.96
7	9.27	4.27	2.37	3.04	3.11	2.89	2.00	1.22	1.11	0.96
8	6.55	6.94	3.47	2.94	2.97	2.40	2.00	1.22	1.11	0.96
9	8.86	4.98	2.91	3.49	3.77	3.21	2.00	1.22	1.11	0.96
10	5.68	5.24	3.55	3.27	3.63	3.55	2.00	1.22	1.11	0.96

INDEX OF INDUSTRIAL PRODUCTION - SIC

25 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	3.20	3.09	1.32	2.42	-	-16.63	-20.18	-20.37	-20.37
2	1.00	4.12	3.30	1.32	2.83	-	-3.02	-4.69	-2.94	-2.94
3	1.00	4.23	3.20	1.32	2.85	-	-2.10	-2.63	-1.83	-1.83
4	1.00	4.63	3.07	1.32	2.99	-	4.01	5.14	4.67	4.67
5	1.00	3.87	2.74	1.32	2.62	-	-7.06	-9.12	-12.42	-12.42
6	1.00	4.29	2.93	1.32	2.82	-	1.36	-1.56	-3.29	-3.29
7	1.00	4.70	3.00	1.32	3.00	-	8.54	6.55	5.33	5.33
8	1.00	4.96	2.69	1.32	3.04	-	8.57	11.92	7.34	7.34
9	1.00	5.03	3.49	1.32	3.23	-	10.16	13.47	17.66	17.66
10	1.00	4.43	3.59	1.32	3.01	-	-3.84	1.12	5.85	5.85

INDEX OF INDUSTRIAL PRODUCTION - SIC 26

HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1900	1.4617	1.6684	1.8698	2.1231	2.4148	2.6984	2.9381	3.1832	3.4281
2	1.0000	1.1492	1.3454	1.5159	1.7025	1.9237	2.1742	2.4296	2.6453	2.8660	3.0865
3	1.0000	1.1982	1.4297	1.6338	1.8473	2.0962	2.3780	2.6573	2.8933	3.1346	3.3758
4	1.0000	1.2529	1.5240	1.7583	1.9931	2.2646	2.5749	2.8774	3.1329	3.3942	3.6554
5	1.0000	1.1451	1.3443	1.5199	1.7124	1.9370	2.1920	2.4495	2.6670	2.8895	3.1119
6	1.0000	1.1692	1.4298	1.6636	1.8945	2.1550	2.4524	2.7905	2.9838	3.2327	3.4815
7	1.0000	1.1581	1.3760	1.5732	1.7868	2.0349	2.3130	2.5846	2.8142	3.0489	3.2835
8	1.0000	1.2208	1.5740	1.8996	2.2947	2.7543	3.2482	3.6298	3.9521	4.2818	4.6113
9	1.0000	1.1788	1.4412	1.6622	1.8805	2.1292	2.4122	2.6955	2.9349	3.1797	3.4244
10	1.0000	1.1277	1.3518	1.5330	1.7278	1.9494	2.2056	2.4647	2.6835	2.9074	3.1311

INDEX OF INDUSTRIAL PRODUCTION - SIC 26 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE ANL/ARAM/ISTUM 11/21/85

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	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	3.54	4.20	2.68	2.30	2.57	2.61	2.25	1.72	1.62	1.49
2	2.82	3.20	2.42	2.35	2.47	2.48	2.25	1.72	1.62	1.49
3	3.68	3.60	2.70	2.49	2.56	2.55	2.25	1.72	1.62	1.49
4	4.61	4.00	2.90	2.54	2.59	2.60	2.25	1.72	1.62	1.49
5	2.75	3.26	2.49	2.41	2.50	2.50	2.25	1.72	1.62	1.49
6	3.18	4.11	3.07	2.63	2.61	2.62	2.25	1.72	1.62	1.49
7	2.98	3.51	2.72	2.58	2.63	2.59	2.25	1.72	1.62	1.49
8	4.07	5.21	3.83	3.85	3.72	3.35	2.25	1.72	1.62	1.49
9	3.34	4.10	2.89	2.50	2.52	2.53	2.25	1.72	1.62	1.49
10	2.43	3.69	2.55	2.42	2.44	2.50	2.25	1.72	1.62	1.49

INDEX OF INDUSTRIAL PRODUCTION - SIC 26 - SUMMARY TABLE

HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	3.18	2.59	1.77	2.49		2.37	-0.06	-0.89	-0.89
2	1.00	2.70	2.48	1.77	2.28		-5.77	-9.00	-10.77	-10.77
3	1.00	3.12	2.56	1.77	2.46		0.13	-1.27	-2.40	-2.40
4	1.00	3.51	2.59	1.77	2.63		6.74	6.53	5.68	5.68
5	1.00	2.73	2.50	1.77	2.30		-5.85	-8.47	-10.03	-10.03
6	1.00	3.25	2.61	1.77	2.53		0.14	1.26	0.65	0.65
7	1.00	2.94	2.61	1.77	2.41		-3.63	-4.49	-5.07	-5.07
8	1.00	4.24	3.54	1.77	3.10		10.24	22.65	33.31	33.31
9	1.00	3.21	2.52	1.77	2.49		0.94	0.51	-1.00	-1.00
10	1.00	2.77	2.47	1.77	2.31		-5.32	-7.65	-9.48	-9.48

INDEX OF INDUSTRIAL PRODUCTION - SIC 27

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2853	1.5024	1.7128	1.8908	2.1147	2.3617	2.5884	2.7731	2.9594	3.1410
2	1.0000	1.2087	1.3764	1.5179	1.6915	1.8987	2.1144	2.3174	2.4827	2.6495	2.8121
3	1.0000	1.2456	1.4224	1.5572	1.7352	1.9442	2.1651	2.3729	2.5423	2.7130	2.8795
4	1.0000	1.4206	1.7320	1.9750	2.2330	2.5296	2.8472	3.1205	3.3432	3.5678	3.7867
5	1.0000	1.1891	1.3329	1.4679	1.6338	1.8311	2.0383	2.2339	2.3933	2.5541	2.7108
6	1.0000	1.3501	1.6160	1.8528	2.1045	2.3821	2.6719	2.9284	3.1373	3.3481	3.5535
7	1.0000	1.2172	1.4223	1.5862	1.7751	1.9978	2.2318	2.4460	2.6205	2.7966	2.9682
8	1.0000	1.4216	1.7315	1.9794	2.2493	2.5503	2.8732	3.1490	3.3737	3.6003	3.8212
9	1.0000	1.2833	1.5381	1.7422	1.9705	2.2332	2.5172	2.7588	2.9557	3.1543	3.3478
10	1.0000	1.2789	1.5462	1.7858	2.0092	2.2600	2.5383	2.7820	2.9805	3.1807	3.3759

INDEX OF INDUSTRIAL PRODUCTION - SIC 27 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	5.15	3.17	2.66	2.00	2.26	2.23	1.85	1.39	1.31	1.20
2	3.86	2.63	1.98	2.19	2.34	2.18	1.85	1.39	1.31	1.20
3	4.49	2.69	1.83	2.19	2.30	2.18	1.85	1.39	1.31	1.20
4	7.27	4.04	2.66	2.49	2.52	2.39	1.85	1.39	1.31	1.20
5	3.53	2.31	1.95	2.16	2.31	2.17	1.85	1.39	1.31	1.20
6	6.19	3.66	2.77	2.58	2.51	2.32	1.85	1.39	1.31	1.20
7	4.01	3.16	2.21	2.28	2.39	2.24	1.85	1.39	1.31	1.20
8	7.29	4.02	2.71	2.59	2.54	2.41	1.85	1.39	1.31	1.20
9	5.11	3.69	2.52	2.49	2.54	2.42	1.85	1.39	1.31	1.20
10	5.04	3.87	2.92	2.39	2.38	2.35	1.85	1.39	1.31	1.20

INDEX OF INDUSTRIAL PRODUCTION - SIC 27 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	3.24	2.25	1.44	2.32	-1.29	-2.00	-3.05	-3.05	
2	1.00	2.66	2.26	1.44	2.09	-9.57	-12.33	-13.20	-13.20	
3	1.00	2.79	2.24	1.44	2.14	-6.54	-10.06	-11.12	-11.12	
4	1.00	4.10	2.46	1.44	2.70	13.79	15.74	16.88	16.88	
5	1.00	2.48	2.24	1.44	2.01	-12.42	-15.32	-16.32	-16.32	
6	1.00	3.79	2.42	1.44	2.57	6.17	9.08	9.69	9.69	
7	1.00	2.91	2.32	1.44	2.20	-6.55	-7.99	-8.38	-8.38	
8	1.00	4.14	2.48	1.44	2.72	13.76	16.59	17.95	17.95	
9	1.00	3.45	2.48	1.44	2.45	1.06	2.13	3.34	3.34	
10	1.00	3.55	2.37	1.44	2.46	1.59	4.14	4.20	4.20	

INDEX OF INDUSTRIAL PRODUCTION - SIC 28

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.3276	1.7428	2.2057	2.7468	3.4687	4.3639	5.4631	6.5133	7.7040	9.0159
2	1.0000	1.1723	1.5988	1.9717	2.4748	3.1490	4.0032	5.0115	5.9750	7.0672	8.2706
3	1.0000	1.1685	1.5855	1.9703	2.4858	3.1536	3.9857	4.9897	5.9489	7.0364	8.2346
4	1.0000	1.2260	1.7155	2.1820	2.7715	3.5340	4.4772	5.6049	6.6825	7.9040	9.2500
5	1.0000	1.1956	1.6324	2.0756	2.5957	3.2495	4.0789	5.1063	6.0880	7.2008	8.4271
6	1.0000	1.1719	1.6682	2.1346	2.6700	3.3503	4.2213	5.2846	6.3006	7.4523	8.7213
7	1.0000	1.1446	1.6083	2.0370	2.5530	3.2354	4.0815	5.1096	6.0919	7.2054	8.4324
8	1.0000	1.4634	1.9947	2.5606	3.3195	4.2315	5.2718	6.5996	7.8684	9.3067	10.8915
9	1.0000	1.1751	1.6306	2.1024	2.6900	3.4230	4.2683	5.3434	6.3706	7.5352	8.8183
10	1.0000	1.5158	2.1614	2.7698	3.4143	4.2653	5.3731	6.7264	8.0196	9.4855	11.1008

INDEX OF INDUSTRIAL PRODUCTION - SIC 28 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	5.83	5.59	4.82	4.49	4.78	4.70	4.60	3.58	3.41	3.19
2	3.23	6.40	4.28	4.65	4.94	4.92	4.60	3.58	3.41	3.19
3	3.16	6.29	4.44	4.76	4.87	4.79	4.60	3.58	3.41	3.19
4	4.16	6.95	4.93	4.90	4.98	4.84	4.60	3.58	3.41	3.19
5	3.64	6.43	4.92	4.57	4.60	4.65	4.60	3.58	3.41	3.19
6	3.22	7.32	5.05	4.58	4.64	4.73	4.60	3.58	3.41	3.19
7	2.74	7.04	4.84	4.62	4.85	4.76	4.60	3.58	3.41	3.19
8	7.91	6.39	5.12	5.33	4.97	4.49	4.60	3.58	3.41	3.19
9	3.28	6.77	5.21	5.05	4.94	4.51	4.60	3.58	3.41	3.19
10	8.68	7.35	5.09	4.27	4.55	4.73	4.60	3.58	3.41	3.19

INDEX OF INDUSTRIAL PRODUCTION - SIC 28 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	5.18	4.74	3.69	4.50		0.52	-0.92	-1.10	-1.10
2	1.00	4.63	4.93	3.69	4.32		-7.79	-10.73	-9.28	-9.28
3	1.00	4.66	4.83	3.69	4.31		-8.56	-10.33	-9.67	-9.67
4	1.00	5.23	4.91	3.69	4.55		-1.06	-0.02	1.47	1.47
5	1.00	4.88	4.62	3.69	4.36		-5.85	-6.37	-7.56	-7.56
6	1.00	5.03	4.69	3.69	4.43		-3.78	-3.68	-4.33	-4.33
7	1.00	4.80	4.80	3.69	4.36		-7.24	-7.91	-7.50	-7.50
8	1.00	6.18	4.73	3.69	4.89		15.05	19.75	19.47	19.47
9	1.00	5.07	4.73	3.69	4.45		-5.95	-2.96	-3.27	-3.27
10	1.00	6.33	4.64	3.69	4.93		24.66	23.16	21.77	21.77

INDEX OF INDUSTRIAL PRODUCTION - SIC 29

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0154	1.1523	1.2159	1.3228	1.4194	1.5289	1.5790	1.6058	1.6289	1.6458
2	1.0000	0.8684	0.9473	0.9450	0.9872	1.0556	1.1627	1.2009	1.2212	1.2388	1.2517
3	1.0000	0.8290	0.9508	0.9832	1.0865	1.1682	1.2369	1.2775	1.2991	1.3179	1.3315
4	1.0000	1.2041	1.3589	1.4326	1.5203	1.6164	1.7273	1.7840	1.8142	1.8403	1.8594
5	1.0000	0.7514	0.8316	0.8781	0.9123	0.9590	1.0163	1.0497	1.0675	1.0828	1.0941
6	1.0000	1.0268	1.1659	1.2360	1.2914	1.3617	1.4616	1.5096	1.5351	1.5572	1.5734
7	1.0000	0.9552	1.1288	1.2295	1.2957	1.3712	1.4676	1.5157	1.5414	1.5636	1.5798
8	1.0000	0.7940	0.9792	1.0627	1.1509	1.2241	1.3115	1.3546	1.3775	1.3973	1.4118
9	1.0000	1.1326	1.3067	1.3783	1.5030	1.6162	1.7287	1.7854	1.8156	1.8418	1.8609
10	1.0000	0.8683	1.0644	1.1797	1.2829	1.3734	1.4973	1.5465	1.5726	1.5953	1.6118

INDEX OF INDUSTRIAL PRODUCTION - SIC 29 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.31	2.56	1.08	1.70	1.42	1.50	0.65	0.34	0.29	0.21
2	-2.78	1.76	-0.05	0.88	1.35	1.95	0.65	0.34	0.29	0.21
3	-3.68	2.78	0.67	2.02	1.46	1.15	0.65	0.34	0.29	0.21
4	3.78	2.45	1.06	1.20	1.23	1.34	0.65	0.34	0.29	0.21
5	-5.56	2.05	1.09	0.77	1.00	1.17	0.65	0.34	0.29	0.21
6	0.53	2.57	1.17	0.88	1.07	1.43	0.65	0.34	0.29	0.21
7	-0.91	3.40	1.72	1.06	1.14	1.37	0.65	0.34	0.29	0.21
8	-4.51	4.28	1.65	1.61	1.24	1.39	0.65	0.34	0.29	0.21
9	2.52	2.90	1.07	1.75	1.46	1.36	0.65	0.34	0.29	0.21
10	-2.79	4.16	2.08	1.69	1.37	1.74	0.65	0.34	0.29	0.21

INDEX OF INDUSTRIAL PRODUCTION - SIC 29 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	1.41	1.46	0.37	1.00		5.85	7.08	8.13	8.13
2	1.00	-0.06	1.65	0.37	0.45		-12.98	-20.09	-17.76	-17.76
3	1.00	0.42	1.31	0.37	0.57		-12.66	-12.05	-12.52	-12.52
4	1.00	2.12	1.28	0.37	1.25		24.83	23.07	22.17	22.17
5	1.00	-0.46	1.09	0.37	0.18		-23.61	-26.15	-28.12	-28.12
6	1.00	1.29	1.25	0.37	0.91		7.10	4.54	3.38	3.38
7	1.00	1.30	1.25	0.37	0.92		3.70	4.89	3.80	3.80
8	1.00	0.71	1.31	0.37	0.69		-10.05	-6.83	-7.24	-7.24
9	1.00	2.06	1.41	0.37	1.25		20.04	21.67	22.26	22.26
10	1.00	1.25	1.56	0.37	0.96		-2.22	3.85	5.90	5.90

INDEX OF INDUSTRIAL PRODUCTION - SIC 30

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.3782	1.9136	2.3758	3.0233	3.8352	4.7695	5.7454	6.6005	7.5205	8.4808
2	1.0000	1.4146	2.0139	2.5446	3.2145	4.1769	5.3697	6.4684	7.4311	8.4668	9.5480
3	1.0000	1.3555	1.8853	2.1677	2.7388	3.4992	4.4220	5.3267	6.1195	6.9725	7.8628
4	1.0000	1.5575	2.3923	3.1202	4.0027	5.1813	6.5827	7.9295	9.1098	10.3795	11.7049
5	1.0000	1.4466	2.0189	2.5060	3.0844	3.9175	4.9244	5.9319	6.8148	7.7647	8.7562
6	1.0000	1.4603	2.1861	2.7424	3.4139	4.3269	5.4643	6.5823	7.5620	8.6160	9.7163
7	1.0000	1.5000	2.0985	2.6929	3.2157	3.8052	4.4907	5.4095	6.2147	7.0809	7.9851
8	1.0000	1.0245	1.4970	1.9209	2.4657	3.1796	3.9539	4.7629	5.4718	6.2344	7.0305
9	1.0000	1.3686	1.9768	2.5214	3.2521	4.2293	5.3243	6.4137	7.3683	8.3953	9.4673
10	1.0000	1.4622	2.0275	2.4645	3.0759	3.9548	5.0375	6.0681	6.9713	7.9430	8.9573

INDEX OF INDUSTRIAL PRODUCTION - SIC 30 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	6.63	6.78	4.42	4.94	4.87	4.46	3.79	2.81	2.64	2.43
2	7.18	7.32	4.79	4.79	5.38	5.15	3.79	2.81	2.64	2.43
3	6.27	6.82	2.83	4.79	5.02	4.79	3.79	2.81	2.64	2.43
4	9.27	8.96	5.46	5.11	5.30	4.90	3.79	2.81	2.64	2.43
5	7.66	6.89	4.42	4.24	4.90	4.68	3.79	2.81	2.64	2.43
6	7.87	8.40	4.64	4.48	4.85	4.78	3.79	2.81	2.64	2.43
7	8.45	6.95	5.11	3.61	3.42	3.37	3.79	2.81	2.64	2.43
8	0.49	7.88	5.11	5.12	5.22	4.46	3.79	2.81	2.64	2.43
9	6.48	7.63	4.99	5.22	5.40	4.71	3.79	2.81	2.64	2.43
10	7.89	6.76	3.98	4.53	5.16	4.96	3.79	2.81	2.64	2.43

INDEX OF INDUSTRIAL PRODUCTION - SIC 30 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030	1990	2000	2010	2030
1	1.00	5.69	4.66	2.92	4.37	-4.37	-3.98	-5.25	---
2	1.00	6.01	5.27	2.92	4.62	0.64	2.09	6.67	-5.25
3	1.00	5.17	4.91	2.92	4.21	-5.78	-13.02	-12.16	6.67
4	1.00	7.18	5.10	2.92	5.04	19.56	27.12	30.77	-12.16
5	1.00	5.79	4.79	2.92	4.46	0.90	-2.04	-2.18	30.77
6	1.00	6.33	4.82	2.92	4.65	9.25	8.42	8.55	-2.18
7	1.00	6.01	3.40	2.92	4.24	4.87	2.13	-10.79	8.55
8	1.00	4.62	4.84	2.92	3.98	-25.19	-21.69	-21.45	-10.79
9	1.00	6.07	5.05	2.92	4.60	-1.21	3.29	5.77	-21.45
10	1.00	5.78	5.06	2.92	4.48	1.32	-2.31	0.07	5.77

INDEX OF INDUSTRIAL PRODUCTION - SIC 31

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	0.8675	0.9912	0.9094	0.8667	0.8212	0.7649	0.7336	0.6894	0.6438	0.5965
2	1.0000	0.8910	1.0084	0.9465	0.9322	0.9117	0.8807	0.8446	0.7937	0.7412	0.6868
3	1.0000	0.8830	1.0265	0.9773	0.9573	0.9258	0.8861	0.8498	0.7986	0.7458	0.6910
4	1.0000	0.7913	0.9613	0.9364	0.9190	0.8896	0.8568	0.8217	0.7721	0.7211	0.6681
5	1.0000	0.9451	1.0692	1.0419	1.0466	1.0396	1.0197	0.9779	0.9190	0.8582	0.7951
6	1.0000	1.0304	1.2345	1.2146	1.2047	1.1820	1.1484	1.1014	1.0349	0.9665	0.8955
7	1.0000	0.9389	1.1350	1.1053	1.0999	1.0809	1.0540	1.0108	0.9499	0.8871	0.8219
8	1.0000	0.7743	0.8365	0.8496	0.7789	0.6986	0.6253	0.5997	0.5635	0.5263	0.4876
9	1.0000	0.8214	1.0275	0.9696	1.0043	1.0396	1.0587	1.0154	0.9542	0.8911	0.8256
10	1.0000	1.8579	1.9897	1.9395	1.8394	1.7321	1.6187	1.5524	1.4588	1.3623	1.2622

INDEX OF INDUSTRIAL PRODUCTION - SIC 31 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	-2.80	2.70	-1.71	-0.96	-1.07	-1.41	-0.83	-1.24	-1.36	-1.51
2	-2.28	2.51	-1.26	-0.30	-0.44	-0.69	-0.83	-1.24	-1.36	-1.51
3	-2.46	3.06	-0.98	-0.41	-0.67	-0.87	-0.83	-1.24	-1.36	-1.51
4	-4.57	3.97	-0.52	-0.37	-0.65	-0.75	-0.83	-1.24	-1.36	-1.51
5	-1.12	2.50	-0.52	0.09	-0.13	-0.39	-0.83	-1.24	-1.36	-1.51
6	0.60	3.68	-0.32	-0.16	-0.38	-0.58	-0.83	-1.24	-1.36	-1.51
7	-1.25	3.87	-0.53	-0.10	-0.35	-0.50	-0.83	-1.24	-1.36	-1.51
8	-4.99	1.56	0.31	-1.72	-2.15	-2.19	-0.83	-1.24	-1.36	-1.51
9	-3.86	4.58	-1.15	0.71	0.69	0.37	-0.83	-1.24	-1.36	-1.51
10	13.19	1.38	-0.51	-1.05	-1.20	-1.35	-0.83	-1.24	-1.36	-1.51

INDEX OF INDUSTRIAL PRODUCTION - SIC 31 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	-0.71	-1.24	-1.24	-1.03		-12.12	-18.61	-22.84	-22.84
2	1.00	-0.35	-0.57	-1.24	-0.75		-10.60	-12.46	-11.16	-11.16
3	1.00	-0.22	-0.77	-1.24	-0.74		-8.99	-10.10	-10.61	-10.61
4	1.00	-0.42	-0.70	-1.24	-0.80		-14.78	-13.70	-13.57	-13.57
5	1.00	0.23	-0.26	-1.24	-0.46		-5.21	-1.72	2.86	2.86
6	1.00	0.94	-0.48	-1.24	-0.22		9.44	13.12	15.84	15.84
7	1.00	0.48	-0.43	-1.24	-0.39		0.62	3.28	6.32	6.32
8	1.00	-1.24	-2.17	-1.24	-1.43		-25.84	-26.86	-36.92	-36.92
9	1.00	0.02	0.53	-1.24	-0.38		-8.91	-5.69	6.80	6.80
10	1.00	3.09	-1.27	-1.24	0.47		76.39	72.73	63.28	63.28

INDEX OF INDUSTRIAL PRODUCTION - SIC 32

HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1605	1.6566	1.9476	2.2352	2.5792	2.9392	3.2443	3.4717	3.6972	3.9133
2	1.0000	1.0462	1.3101	1.4626	1.6429	1.8800	2.1418	2.3641	2.5298	2.6942	2.8516
3	1.0000	1.0382	1.3120	1.4445	1.6386	1.8720	2.1245	2.3451	2.5095	2.6725	2.8287
4	1.0000	1.2384	1.6028	1.8085	2.1012	2.4272	2.7641	3.0511	3.2649	3.4770	3.6803
5	1.0000	1.0633	1.3137	1.4835	1.6875	1.9327	2.1932	2.4208	2.5905	2.7588	2.9201
6	1.0000	1.2898	1.6077	1.9192	2.2074	2.5041	2.8296	3.1234	3.3423	3.5594	3.7675
7	1.0000	1.0320	1.2872	1.4311	1.6225	1.8484	2.0771	2.2927	2.4534	2.6128	2.7655
8	1.0000	1.1266	1.5222	1.7789	2.0600	2.3824	2.6885	2.9675	3.1756	3.3818	3.5795
9	1.0000	1.1980	1.5772	1.8195	2.1325	2.5265	2.9167	3.2194	3.4451	3.6689	3.8833
10	1.0000	1.0570	1.4193	1.6301	1.8887	2.2410	2.6225	2.8947	3.0976	3.2988	3.4916

INDEX OF INDUSTRIAL PRODUCTION - SIC 32 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	3.02	7.38	3.29	2.79	2.90	2.65	1.99	1.36	1.27	1.14
2	0.91	4.60	2.23	2.35	2.73	2.64	1.99	1.36	1.27	1.14
3	0.75	4.79	1.94	2.55	2.70	2.56	1.99	1.36	1.27	1.14
4	4.37	5.29	2.45	3.04	2.93	2.63	1.99	1.36	1.27	1.14
5	1.24	4.32	2.46	2.61	2.75	2.56	1.99	1.36	1.27	1.14
6	5.22	4.50	3.61	2.84	2.55	2.47	1.99	1.36	1.27	1.14
7	0.63	4.52	2.14	2.54	2.64	2.36	1.99	1.36	1.27	1.14
8	2.41	6.20	3.17	2.98	2.95	2.45	1.99	1.36	1.27	1.14
9	3.68	5.65	2.90	3.23	3.45	2.91	1.99	1.36	1.27	1.14
10	1.11	6.07	2.81	2.99	3.48	3.19	1.99	1.36	1.27	1.14

INDEX OF INDUSTRIAL PRODUCTION - SIC 32 - SUMMARY TABLE

HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030	1990	2000	2010	2030
1	1.00	4.10	2.78	1.44	2.77	13.40	16.32	16.19	16.19
2	1.00	2.51	2.69	1.44	2.12	-10.32	-14.51	-15.34	-15.34
3	1.00	2.50	2.63	1.44	2.10	-10.19	-14.73	-16.02	-16.02
4	1.00	3.78	2.78	1.44	2.64	9.71	9.34	9.27	9.27
5	1.00	2.65	2.66	1.44	2.17	-10.07	-12.19	-13.30	-13.30
6	1.00	4.04	2.51	1.44	2.69	10.05	14.87	11.86	11.86
7	1.00	2.45	2.50	1.44	2.06	-11.89	-15.56	-17.89	-17.89
8	1.00	3.68	2.70	1.44	2.58	4.20	7.20	6.28	6.28
9	1.00	3.86	3.18	1.44	2.75	7.96	10.97	15.30	15.30
10	1.00	3.23	3.34	1.44	2.53	-2.84	-1.71	3.67	3.67

INDEX OF INDUSTRIAL PRODUCTION - SIC 34

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1633	1.5389	1.8390	2.1771	2.5709	2.9622	3.3636	3.6723	3.9869	4.2962
2	1.0000	1.1429	1.4998	1.6836	2.0024	2.3914	2.7960	3.1749	3.4662	3.7631	4.0551
3	1.0000	1.0428	1.3426	1.4945	1.7679	2.1068	2.4537	2.7862	3.0419	3.3025	3.5587
4	1.0000	1.2448	1.6835	1.9775	2.3939	2.8720	3.3547	3.8093	4.1590	4.5152	4.8655
5	1.0000	1.1554	1.4035	1.5798	1.8736	2.2276	2.5806	2.9303	3.1993	3.4733	3.7428
6	1.0000	1.1166	1.5633	1.8705	2.2104	2.6202	3.0619	3.4768	3.7959	4.1211	4.4408
7	1.0000	1.1581	1.4819	1.7173	2.0392	2.3950	2.7664	3.1186	3.4049	3.6965	3.9833
8	1.0000	1.1837	1.6112	1.9247	2.2699	2.6312	2.9716	3.3743	3.6840	3.9996	4.3099
9	1.0000	1.1951	1.6459	1.9737	2.3991	2.8991	3.3826	3.8410	4.1935	4.5527	4.9059
10	1.0000	1.1041	1.4196	1.6926	1.9804	2.3498	2.7428	3.1145	3.4004	3.6916	3.9780

INDEX OF INDUSTRIAL PRODUCTION - SIC 34 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	3.07	5.76	3.63	3.43	3.38	2.87	2.57	1.77	1.66	1.51
2	2.71	5.59	2.40	3.47	3.61	3.18	2.57	1.77	1.66	1.51
3	0.84	5.18	2.17	3.42	3.57	3.10	2.57	1.77	1.66	1.51
4	4.48	6.22	3.27	3.90	3.71	3.16	2.57	1.77	1.66	1.51
5	2.93	3.97	2.40	3.47	3.52	2.99	2.57	1.77	1.66	1.51
6	2.23	6.96	3.65	3.40	3.46	3.16	2.57	1.77	1.66	1.51
7	2.98	5.05	2.99	3.50	3.27	2.78	2.57	1.77	1.66	1.51
8	3.43	6.36	3.62	3.35	3.00	2.46	2.57	1.77	1.66	1.51
9	3.63	6.61	3.70	3.98	3.86	3.13	2.57	1.77	1.66	1.51
10	2.00	5.16	3.58	3.19	3.48	3.14	2.57	1.77	1.66	1.51

INDEX OF INDUSTRIAL PRODUCTION - SIC 34 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	3.97	3.13	1.88	2.96		1.31	3.11	1.96	1.96
2	1.00	3.53	3.39	1.88	2.84		-1.27	-5.16	-3.76	-3.76
3	1.00	2.89	3.33	1.88	2.57		-11.61	-16.27	-15.54	-15.54
4	1.00	4.46	3.43	1.88	3.21		10.83	13.38	15.47	15.47
5	1.00	3.19	3.25	1.88	2.67		-7.61	-11.26	-11.17	-11.17
6	1.00	4.05	3.31	1.88	3.03		2.91	4.69	5.39	5.39
7	1.00	3.63	3.02	1.88	2.80		-2.44	-3.42	-5.47	-5.47
8	1.00	4.18	2.73	1.88	2.96		6.07	7.51	2.29	2.29
9	1.00	4.47	3.50	1.88	3.23		8.35	13.63	16.43	16.43
10	1.00	3.48	3.31	1.88	2.80		-6.54	-6.20	-5.59	-5.59

INDEX OF INDUSTRIAL PRODUCTION - SIC 35

HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.3131	2.0790	2.7735	3.4652	4.2077	5.1494	5.7753	6.1469	6.4982	6.8105
2	1.0000	1.3105	1.9649	2.3886	2.9102	3.5166	4.2859	4.8068	5.1162	5.4086	5.6685
3	1.0000	1.1960	1.8306	2.2031	2.6888	3.2421	3.9343	4.4125	4.6964	4.9649	5.2034
4	1.0000	1.5698	2.5483	3.2081	3.9656	4.8127	5.8697	6.5831	7.0067	7.4072	7.7631
5	1.0000	1.1868	1.7731	2.1588	2.5946	3.0966	3.7288	4.1820	4.4512	4.7056	4.9317
6	1.0000	1.2579	2.1028	2.6317	3.2506	3.9535	4.8506	5.4402	5.7903	6.1212	6.4154
7	1.0000	1.1634	1.7326	2.0774	2.4758	2.9419	3.5240	3.9523	4.2066	4.4470	4.6607
8	1.0000	1.7147	2.8603	3.7170	4.8818	6.2784	7.9466	8.9125	9.4860	10.0282	10.5101
9	1.0000	1.4976	2.4451	3.1658	3.9085	4.7162	5.6969	6.3894	6.8006	7.1892	7.5347
10	1.0000	1.4313	2.0675	2.6403	3.2906	3.9995	4.9003	5.4959	5.8495	6.1839	6.4810

INDEX OF INDUSTRIAL PRODUCTION - SIC 35 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	5.60	9.63	5.93	4.55	3.96	4.12	2.32	1.26	1.12	0.94
2	5.56	8.44	3.98	4.03	3.86	4.04	2.32	1.26	1.12	0.94
3	3.64	8.89	3.77	4.07	3.81	3.95	2.32	1.26	1.12	0.94
4	9.44	10.18	4.71	4.33	3.95	4.05	2.32	1.26	1.12	0.94
5	3.49	8.36	4.02	3.75	3.60	3.79	2.32	1.26	1.12	0.94
6	4.70	10.82	4.59	4.31	3.99	4.18	2.32	1.26	1.12	0.94
7	3.07	8.29	3.70	3.57	3.51	3.68	2.32	1.26	1.12	0.94
8	11.39	10.78	5.38	5.60	5.16	4.83	2.32	1.26	1.12	0.94
9	8.41	10.30	5.30	4.31	3.83	3.85	2.32	1.26	1.12	0.94
10	7.43	7.63	5.01	4.50	3.98	4.15	2.32	1.26	1.12	0.94

INDEX OF INDUSTRIAL PRODUCTION - SIC 35 - SUMMARY TABLE

	1980	1980-2000	2000-2010	2010-2030	1980-2030	1990	2000	2010	2030
1	1.00	6.41	4.04	1.41	3.91	-2.87	3.65	3.22	3.22
2	1.00	5.49	3.95	1.41	3.53	-8.20	-12.95	-14.09	-14.09
3	1.00	5.07	3.88	1.41	3.35	-14.47	-19.57	-21.14	-21.14
4	1.00	7.13	4.00	1.41	4.18	19.06	18.62	17.66	17.66
5	1.00	4.88	3.69	1.41	3.24	-17.16	-22.39	-25.25	-25.25
6	1.00	6.07	4.08	1.41	3.79	-1.76	-2.77	-2.77	-2.77
7	1.00	4.64	3.59	1.41	3.13	-19.05	-25.94	-29.36	-29.36
8	1.00	8.25	4.99	1.41	4.82	33.63	46.02	59.29	59.29
9	1.00	7.05	3.84	1.41	4.12	14.23	16.91	14.20	14.20
10	1.00	6.14	4.06	1.41	3.81	-3.41	-1.57	-1.77	-1.77

INDEX OF INDUSTRIAL PRODUCTION - SIC 36

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.5057	2.3391	2.9123	3.5908	4.3733	5.2938	5.9075	6.3134	6.7070	7.0718
2	1.0000	1.3449	1.8659	2.2384	2.6770	3.1969	3.7661	4.2027	4.4915	4.7715	5.0310
3	1.0000	1.3460	1.8782	2.2457	2.7097	3.2496	3.8441	4.2897	4.5845	4.8702	5.1351
4	1.0000	1.5198	2.3000	2.8425	3.4823	4.1437	4.9505	5.5244	5.9040	6.2721	6.6132
5	1.0000	1.2293	1.6445	1.8588	2.1575	2.4979	2.9022	3.2386	3.4612	3.6769	3.8769
6	1.0000	1.3927	2.1016	2.5814	3.2089	3.8705	4.6372	5.1747	5.5303	5.8751	6.1946
7	1.0000	1.1943	1.7100	2.0567	2.4345	2.8919	3.4456	3.8450	4.1092	4.3654	4.6028
8	1.0000	1.6996	2.5391	3.2111	4.1305	5.2087	6.4770	7.2278	7.7245	8.2061	8.6524
9	1.0000	1.5697	2.3357	2.9251	3.6135	4.3564	5.2043	5.8076	6.2067	6.5936	6.9522
10	1.0000	1.5469	2.3431	2.9029	3.6555	4.4248	5.3908	6.0157	6.4291	6.8299	7.2013

INDEX OF INDUSTRIAL PRODUCTION - SIC 36 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	8.53	9.21	4.48	4.28	4.02	3.89	2.22	1.34	1.22	1.06
2	6.11	6.77	3.71	3.64	3.61	3.33	2.22	1.34	1.22	1.06
3	6.12	6.89	3.64	3.83	3.70	3.42	2.22	1.34	1.22	1.06
4	8.73	8.64	4.33	4.14	3.54	3.62	2.22	1.34	1.22	1.06
5	4.22	5.99	2.48	3.03	2.97	3.05	2.22	1.34	1.22	1.06
6	6.85	8.58	4.20	4.45	3.82	3.68	2.22	1.34	1.22	1.06
7	3.62	7.44	3.76	3.43	3.50	3.57	2.22	1.34	1.22	1.06
8	11.19	8.36	4.81	5.16	4.75	4.46	2.22	1.34	1.22	1.06
9	9.44	8.27	4.60	4.32	3.81	3.62	2.22	1.34	1.22	1.06
10	9.2	8.66	4.38	4.72	3.89	4.03	2.22	1.34	1.22	1.06

INDEX OF INDUSTRIAL PRODUCTION - SIC 36 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	6.60	3.96	1.46	3.99		11.09	13.42	15.30	15.30
2	1.00	5.05	3.47	1.46	3.28		-11.39	-15.45	-17.97	-17.97
3	1.00	5.11	3.56	1.46	3.33		-10.81	-14.41	-16.27	-16.27
4	1.00	6.44	3.58	1.46	3.85		9.22	9.99	7.83	7.83
5	1.00	3.92	3.01	1.46	2.75		-21.90	-31.85	-36.79	-36.79
6	1.00	6.00	3.75	1.46	3.71		-0.19	1.35	1.00	1.00
7	1.00	4.55	3.53	1.46	3.10		-18.79	-23.10	-24.95	-24.95
8	1.00	7.35	4.60	1.46	4.41		20.58	30.46	41.08	41.08
9	1.00	6.63	3.72	1.46	3.95		10.92	14.13	13.36	13.36
10	1.00	6.70	3.96	1.46	4.03		11.27	15.46	17.42	17.42

INDEX OF INDUSTRIAL PRODUCTION - SIC 37

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.2829	1.7938	2.2902	2.7677	3.2308	3.7828	4.1279	4.3242	4.5063	4.6642
2	1.0000	1.1611	1.5898	1.8402	2.1321	2.5071	2.9339	3.2016	3.3538	3.4951	3.6175
3	1.0000	1.2420	1.6410	1.8554	2.2003	2.6144	3.0737	3.3541	3.5136	3.6616	3.7899
4	1.0000	1.5597	2.1556	2.5572	3.0577	3.6577	4.2973	4.6893	4.9122	5.1191	5.2985
5	1.0000	1.3606	1.6939	1.9286	2.2348	2.6301	3.0267	3.3028	3.4598	3.6055	3.7319
6	1.0000	1.2349	1.7302	1.9545	2.3441	2.8238	3.3901	3.6993	3.8753	4.0385	4.1800
7	1.0000	1.4293	1.8934	2.2094	2.5976	3.1083	3.6256	3.9564	4.1445	4.3191	4.4704
8	1.0000	1.7989	2.4678	2.9106	3.4641	4.1387	4.8201	5.2597	5.5098	5.7419	5.9431
9	1.0000	1.3834	1.9167	2.2559	2.6850	3.2078	3.7453	4.0870	4.2813	4.4616	4.6179
10	1.0000	1.1287	1.6193	2.0702	2.6157	3.2672	3.9306	4.2891	4.4931	4.6823	4.8664

INDEX OF INDUSTRIAL PRODUCTION - SIC 37 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	5.11	6.93	5.01	3.86	3.14	3.21	1.76	0.93	0.83	0.69
2	3.03	6.49	2.97	2.99	3.29	3.19	1.76	0.93	0.83	0.69
3	4.43	5.73	2.49	3.47	3.51	3.29	1.76	0.93	0.83	0.69
4	9.30	6.69	3.48	3.64	3.65	3.28	1.76	0.93	0.83	0.69
5	6.35	4.48	2.63	2.99	3.31	2.85	1.76	0.93	0.83	0.69
6	4.31	6.98	2.47	3.70	3.79	3.72	1.76	0.93	0.83	0.69
7	7.41	5.79	3.13	3.29	3.66	3.13	1.76	0.93	0.83	0.69
8	12.46	6.53	3.36	3.54	3.62	3.09	1.76	0.93	0.83	0.69
9	6.71	6.74	3.31	3.54	3.62	3.15	1.76	0.93	0.83	0.69
10	2.45	7.48	5.04	4.79	4.55	3.77	1.76	0.93	0.83	0.69

INDEX OF INDUSTRIAL PRODUCTION - SIC 37 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	5.22	3.17	1.05	3.13		-3.04	6.05	3.28	3.28
2	1.00	3.86	3.24	1.05	2.60		-14.07	-18.31	-19.90	-19.90
3	1.00	4.02	3.40	1.05	2.70		-11.30	-15.69	-16.08	-16.08
4	1.00	5.75	3.46	1.05	3.39		16.51	17.16	17.33	17.33
5	1.00	4.10	3.08	1.05	2.67		-8.45	-14.37	-17.36	-17.36
6	1.00	4.35	3.76	1.05	2.90		-6.48	-10.18	-7.44	-7.44
7	1.00	4.89	3.39	1.05	3.04		2.34	-0.47	-1.01	-1.01
8	1.00	6.41	3.36	1.05	3.63		33.38	32.73	31.60	31.60
9	1.00	5.06	3.38	1.05	3.11		3.60	2.88	2.26	2.26
10	1.00	4.93	4.16	1.05	3.21		-12.48	0.22	7.32	7.32

INDEX OF INDUSTRIAL PRODUCTION - SIC 38

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1414	1.8423	2.4122	3.0369	3.7413	4.6634	5.5624	6.2842	7.0495	7.8333
2	1.0000	1.1062	1.6174	1.9941	2.4530	3.0042	3.7059	4.4203	4.9939	5.6020	6.2249
3	1.0000	1.0153	1.5319	1.8876	2.3397	2.8571	3.5141	4.1915	4.7354	5.3121	5.9027
4	1.0000	1.2056	1.9721	2.5780	3.2445	4.0369	5.0621	6.0379	6.8214	7.6521	8.5030
5	1.0000	1.0737	1.5609	1.8860	2.2734	2.7831	3.4308	4.0922	4.6232	5.1862	5.7629
6	1.0000	1.1705	1.8282	2.3234	2.8941	3.6154	4.5363	5.4107	6.1128	6.8572	7.6197
7	1.0000	1.5571	2.4924	3.2657	4.0278	5.0023	6.2438	7.4957	8.4139	9.4385	10.4880
8	1.0000	1.2198	2.0038	2.6149	3.3132	4.1393	5.2000	6.2024	7.0072	7.8605	8.7346
9	1.0000	1.2809	2.0907	2.7236	3.4450	4.2944	5.3858	6.4240	7.2576	8.1414	9.0467
10	1.0000	1.0425	1.6913	2.2452	2.9012	3.6847	4.6949	5.6000	6.3267	7.0971	7.8863

INDEX OF INDUSTRIAL PRODUCTION - SIC 38 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	2.68	10.05	5.54	4.71	4.26	4.51	3.59	2.47	2.32	2.13
2	2.04	7.89	4.28	4.23	4.14	4.29	3.59	2.47	2.32	2.13
3	0.30	8.57	4.27	4.39	4.08	4.23	3.59	2.47	2.32	2.13
4	3.81	10.34	5.50	4.71	4.47	4.63	3.59	2.47	2.32	2.13
5	1.43	7.77	3.86	3.81	4.13	4.27	3.59	2.47	2.32	2.13
6	3.20	9.33	4.91	4.49	4.55	4.64	3.59	2.47	2.32	2.13
7	9.12	10.01	5.55	4.28	4.43	4.53	3.59	2.47	2.32	2.13
8	4.05	10.44	5.47	4.85	4.55	4.67	3.59	2.47	2.32	2.13
9	5.08	10.29	5.43	4.81	4.51	4.63	3.59	2.47	2.32	2.13
10	0.84	10.16	5.83	5.26	4.90	4.97	3.59	2.47	2.32	2.13

INDEX OF INDUSTRIAL PRODUCTION - SIC 38 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	5.71	4.38	2.63	4.20		-1.12			
2	1.00	4.59	4.21	2.63	3.72		-13.19	-18.04	-20.20	-20.20
3	1.00	4.34	4.15	2.63	3.61		-17.78	-21.82	-24.33	-24.33
4	1.00	6.06	4.55	2.63	4.37		5.85	8.41	9.01	9.01
5	1.00	4.19	4.20	2.63	3.56		-16.22	-24.04	-26.12	-26.12
6	1.00	5.46	4.60	2.63	4.15		-1.87	-3.30	-2.31	-2.31
7	1.00	7.21	4.48	2.63	4.81		33.78	34.58	34.46	34.46
8	1.00	6.17	4.61	2.63	4.43		7.55	10.70	11.98	11.98
9	1.00	6.38	4.57	2.63	4.50		12.22	15.11	15.98	15.98
10	1.00	5.47	4.93	2.63	4.22		-9.22	-3.06	1.10	1.10

INDEX OF INDUSTRIAL PRODUCTION - SIC 39

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0121	1.3034	1.4728	1.6480	1.8462	2.0784	2.3539	2.5627	2.7749	2.9827
2	1.0000	1.0646	1.4036	1.6408	1.8777	2.1625	2.4953	2.8260	3.0767	3.3315	3.5810
3	1.0000	1.0876	1.3951	1.5126	1.7689	2.0422	2.3475	2.6586	2.8945	3.1342	3.3689
4	1.0000	1.2403	1.7341	2.0605	2.3859	2.7439	3.1608	3.5797	3.8972	4.2200	4.5361
5	1.0000	1.0364	1.3881	1.6509	1.9457	2.2865	2.6836	3.0392	3.3088	3.5829	3.8512
6	1.0000	1.0236	1.4206	1.6927	2.0391	2.4670	2.9808	3.3758	3.6752	3.9796	4.2777
7	1.0000	1.0669	1.4413	1.6748	1.9429	2.2626	2.6248	2.9727	3.2363	3.5044	3.7669
8	1.0000	1.2665	1.7888	2.1595	2.4898	2.8561	3.2891	3.7249	4.0554	4.3912	4.7201
9	1.0000	1.1339	1.5392	1.8164	2.1072	2.4564	2.8680	3.2480	3.5361	3.8290	4.1158
10	1.0000	1.5202	2.0900	2.5382	3.0269	3.5858	4.2319	4.7927	5.2178	5.6500	6.0732

INDEX OF INDUSTRIAL PRODUCTION - SIC 39 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

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	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.24	5.19	2.47	2.27	2.30	2.40	2.52	1.71	1.60	1.46
2	1.26	5.69	3.17	2.73	2.86	2.90	2.52	1.71	1.60	1.46
3	1.69	5.11	1.63	3.18	2.92	2.83	2.52	1.71	1.60	1.46
4	4.40	6.93	3.51	2.98	2.84	2.87	2.52	1.71	1.60	1.46
5	0.72	6.02	3.53	3.34	3.28	3.25	2.52	1.71	1.60	1.46
6	0.47	6.77	3.57	3.79	3.88	3.86	2.52	1.71	1.60	1.46
7	1.30	6.20	3.05	3.01	3.09	3.01	2.52	1.71	1.60	1.46
8	4.44	7.15	3.84	2.89	2.78	2.86	2.52	1.71	1.60	1.46
9	2.15	6.30	3.37	3.01	3.11	3.15	2.52	1.71	1.60	1.46
10	8.74	6.57	3.96	3.58	3.45	3.37	2.52	1.71	1.60	1.46

INDEX OF INDUSTRIAL PRODUCTION - SIC 39 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030	1990	2000	2010	2030
1	1.00	2.53	2.35	1.82	2.21	-15.93	-22.38	-27.73	-27.73
2	1.00	3.20	2.88	1.82	2.58	-9.47	-11.56	-13.24	-13.24
3	1.00	2.89	2.87	1.82	2.46	-10.01	-16.69	-18.38	-18.38
4	1.00	4.44	2.85	1.82	3.07	11.85	12.37	9.90	9.90
5	1.00	3.38	3.27	1.82	2.73	-10.47	-8.36	-6.69	-6.69
6	1.00	3.63	3.87	1.82	2.95	-8.37	-3.96	3.64	3.64
7	1.00	3.38	3.05	1.82	2.69	-7.04	-8.49	-8.73	-8.73
8	1.00	4.67	2.82	1.82	3.15	15.38	17.26	19.36	19.36
9	1.00	3.80	3.13	1.82	2.87	-0.72	-0.75	-0.28	-0.28
10	1.00	5.69	3.41	1.82	3.67	34.80	42.56	47.14	47.14

INDEX OF INDUSTRIAL PRODUCTION - SIC 1

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1022	1.2191	1.3269	1.3950	1.4761	1.5717	1.6928	1.7912	1.8825	1.9630
2	1.0000	1.1538	1.3314	1.4770	1.6306	1.7949	1.9786	2.1312	2.2550	2.3699	2.4713
3	1.0000	1.0671	1.1695	1.2421	1.3227	1.4153	1.5212	1.6385	1.7336	1.8220	1.8999
4	1.0000	1.1023	1.2202	1.3162	1.4342	1.5703	1.7185	1.8510	1.9585	2.0583	2.1464
5	1.0000	1.1005	1.2213	1.3237	1.4410	1.5622	1.6913	1.8217	1.9275	2.0257	2.1124
6	1.0000	1.1266	1.1997	1.3024	1.3784	1.4757	1.5862	1.7085	1.8077	1.8999	1.9811
7	1.0000	1.0754	1.1647	1.2458	1.3167	1.3871	1.4722	1.5857	1.6778	1.7634	1.8388
8	1.0000	1.1163	1.2051	1.3023	1.3758	1.4560	1.5464	1.6656	1.7624	1.8522	1.9314
9	1.0000	1.1509	1.3419	1.5223	1.7103	1.9131	2.1223	2.2860	2.4187	2.5421	2.6508
10	1.0000	1.1045	1.2283	1.4054	1.5565	1.6985	1.8627	2.0064	2.1229	2.2311	2.3265

INDEX OF INDUSTRIAL PRODUCTION - SIC 1 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.97	2.04	1.71	1.00	1.14	1.26	1.50	1.14	1.00	0.84
2	2.90	2.90	2.10	2.00	1.94	1.97	1.50	1.14	1.00	0.84
3	1.31	1.85	1.21	1.27	1.36	1.45	1.50	1.14	1.00	0.84
4	1.97	2.05	1.53	1.73	1.83	1.82	1.50	1.14	1.00	0.84
5	1.93	2.11	1.62	1.71	1.63	1.60	1.50	1.14	1.00	0.84
6	2.41	1.27	1.66	1.14	1.37	1.45	1.50	1.14	1.00	0.84
7	1.46	1.61	1.35	1.08	1.08	1.20	1.50	1.14	1.00	0.84
8	2.22	1.54	1.56	1.10	1.14	1.21	1.50	1.14	1.00	0.84
9	2.85	3.12	2.55	2.36	2.27	2.10	1.50	1.14	1.00	0.84
10	2.01	2.15	2.73	2.06	1.76	1.86	1.50	1.14	1.00	0.84

INDEX OF INDUSTRIAL PRODUCTION - SIC 1 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00		1.68	1.20	1.12	1.36	-0.90	-4.18	-7.93	-7.93
2	1.00		2.47	1.95	1.12	1.83	8.23	12.00	15.91	15.91
3	1.00		1.41	1.41	1.12	1.29	-4.92	-9.15	-10.89	-10.89
4	1.00		1.82	1.82	1.12	1.54	-0.81	-1.49	0.67	0.67
5	1.00		1.84	1.61	1.12	1.51	-0.71	-1.02	-0.93	-0.93
6	1.00		1.62	1.41	1.12	1.38	-2.47	-5.32	-7.08	-7.08
7	1.00		1.38	1.14	1.12	1.23	-5.32	-9.70	-13.76	-13.76
8	1.00		1.61	1.18	1.12	1.33	-2.04	-5.50	-9.41	-9.41
9	1.00		2.72	2.18	1.12	1.97	9.09	17.47	24.32	24.32
10	1.00		2.24	1.81	1.12	1.70	-0.15	6.91	9.12	9.12

INDEX OF INDUSTRIAL PRODUCTION - SIC 2

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1022	1.2191	1.3269	1.3950	1.4761	1.5717	1.6928	1.7912	1.8825	1.9630
2	1.0000	1.1538	1.3314	1.4770	1.6306	1.7949	1.9786	2.1312	2.2550	2.3699	2.4713
3	1.0000	1.0671	1.1695	1.2421	1.3227	1.4153	1.5212	1.6385	1.7336	1.8220	1.8999
4	1.0000	1.1023	1.2202	1.3162	1.4342	1.5703	1.7185	1.8510	1.9585	2.0583	2.1464
5	1.0000	1.1005	1.2213	1.3237	1.4410	1.5622	1.6913	1.8217	1.9275	2.0257	2.1124
6	1.0000	1.1266	1.1997	1.3024	1.3784	1.4757	1.5862	1.7085	1.8077	1.8999	1.9811
7	1.0000	1.0754	1.1647	1.2458	1.3147	1.3871	1.4722	1.5857	1.6778	1.7634	1.8388
8	1.0000	1.1163	1.2051	1.3023	1.3758	1.4560	1.5464	1.6656	1.7624	1.8522	1.9314
9	1.0000	1.1509	1.3419	1.5223	1.7103	1.9131	2.1223	2.2860	2.4187	2.5421	2.6508
10	1.0000	1.1045	1.2283	1.4054	1.5565	1.6985	1.8627	2.0064	2.1229	2.2311	2.3265

INDEX OF INDUSTRIAL PRODUCTION - SIC 2 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.97	2.04	1.71	1.00	1.14	1.26	1.50	1.14	1.00	0.84
2	2.90	2.90	2.10	2.00	1.94	1.97	1.50	1.14	1.00	0.84
3	1.31	1.85	1.21	1.27	1.36	1.45	1.50	1.14	1.00	0.84
4	1.97	2.05	1.53	1.73	1.83	1.82	1.50	1.14	1.00	0.84
5	1.93	2.11	1.62	1.71	1.63	1.60	1.50	1.14	1.00	0.84
6	2.41	1.27	1.66	1.14	1.37	1.45	1.50	1.14	1.00	0.84
7	1.46	1.61	1.35	1.08	1.08	1.20	1.50	1.14	1.00	0.84
8	2.22	1.54	1.56	1.10	1.14	1.21	1.50	1.14	1.00	0.84
9	2.85	3.12	2.55	2.36	2.27	2.10	1.50	1.14	1.00	0.84
10	2.01	2.15	2.73	2.06	1.76	1.86	1.50	1.14	1.00	0.84

INDEX OF INDUSTRIAL PRODUCTION - SIC 2 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	1.68	1.20	1.12	1.36	-	-0.90	-4.18	-7.93	-7.93
2	1.00	2.47	1.95	1.12	1.83	-	8.23	12.00	15.91	15.91
3	1.00	1.61	1.41	1.12	1.29	-	-4.92	-9.15	-10.89	-10.89
4	1.00	1.82	1.82	1.12	1.54	-	-0.81	-1.49	0.67	0.67
5	1.00	1.84	1.61	1.12	1.51	-	-0.71	-1.02	-0.93	-0.93
6	1.00	1.62	1.41	1.12	1.38	-	-2.47	-5.32	-7.08	-7.08
7	1.00	1.38	1.16	1.12	1.23	-	-5.32	-9.70	-13.76	-13.76
8	1.00	1.61	1.18	1.12	1.33	-	-2.04	-5.50	-9.41	-9.41
9	1.00	2.72	2.18	1.12	1.97	-	9.09	17.47	24.32	24.32
10	1.00	2.24	1.81	1.12	1.70	-	-0.15	6.91	9.12	9.12

INDEX OF INDUSTRIAL PRODUCTION - SIC 10A HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0210	1.0687	1.1504	1.2125	1.2588	1.3512	1.5769	1.7813	1.9924	2.2030
2	1.0000	1.5388	1.8493	2.4582	2.8370	3.2928	4.0374	4.7116	5.3224	5.9530	6.5823
3	1.0000	1.0213	1.3278	1.5396	1.7564	2.0010	2.2916	2.6743	3.0210	3.3789	3.7360
4	1.0000	1.0808	1.4091	1.6689	1.9615	2.2749	2.6462	3.0881	3.4884	3.9017	4.3142
5	1.0000	1.1434	1.4134	1.5955	1.7819	2.0133	2.2844	2.6659	3.0115	3.3683	3.7243
6	1.0000	1.1641	1.2831	1.4717	1.6784	1.9403	2.2582	2.6353	2.9769	3.3296	3.6816
7	1.0000	1.4221	1.6771	1.9809	2.2650	2.6270	3.0780	3.5920	4.0577	4.5384	5.0181
8	1.0000	1.4342	1.4485	1.7448	2.0472	2.3943	2.8172	3.2876	3.7138	4.1538	4.5929
9	1.0000	1.3050	1.4714	1.6602	1.7946	1.9850	2.2346	2.6078	2.9458	3.2948	3.6431
10	1.0000	1.1895	1.3899	1.6959	1.9667	2.3169	2.7103	3.1630	3.5730	3.9963	4.4187

INDEX OF INDUSTRIAL PRODUCTION - SIC 10A - AVERAGE ANNUAL GROWTH RATES HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.42	0.92	1.48	1.06	0.75	1.43	3.14	2.47	2.26	2.03
2	9.00	3.74	5.86	2.91	3.02	4.16	3.14	2.47	2.26	2.03
3	0.42	5.39	3.00	2.67	2.64	2.75	3.14	2.47	2.26	2.03
4	1.57	5.45	3.44	3.28	3.01	3.07	3.14	2.47	2.26	2.03
5	2.72	4.33	2.45	2.23	2.47	2.56	3.14	2.47	2.26	2.03
6	3.19	1.97	2.78	2.66	2.94	3.08	3.14	2.47	2.26	2.03
7	7.11	3.35	3.39	2.72	3.01	3.22	3.14	2.47	2.26	2.03
8	2.71	4.85	3.79	3.25	3.18	3.31	3.14	2.47	2.26	2.03
9	5.47	2.43	2.20	1.81	2.04	2.40	3.14	2.47	2.26	2.03
10	3.53	3.16	4.06	3.01	3.33	3.19	3.14	2.47	2.26	2.03

INDEX OF INDUSTRIAL PRODUCTION - SIC 10A - SUMMARY TABLE HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	0.97	1.09	2.47	1.59	-25.46	-37.18	-47.44	-47.44	
2	1.00	5.35	3.59	2.47	3.84	28.97	46.99	57.04	57.04	
3	1.00	2.86	2.70	2.47	2.67	-7.39	-9.00	-10.86	-10.86	
4	1.00	3.43	3.04	2.47	2.97	-1.73	1.63	2.93	2.93	
5	1.00	2.93	2.52	2.47	2.66	-1.42	-7.68	-11.14	-11.14	
6	1.00	2.62	3.01	2.47	2.64	-10.51	-13.04	-12.16	-12.16	
7	1.00	4.17	3.11	2.47	3.28	16.97	17.35	19.72	19.72	
8	1.00	3.65	3.24	2.47	3.10	1.03	6.07	9.58	9.58	
9	1.00	2.97	2.22	2.47	2.62	2.62	-7.02	-13.08	-13.08	
10	1.00	3.44	3.26	2.47	3.02	-3.07	1.90	5.42	5.42	

INDEX OF INDUSTRIAL PRODUCTION - SIC

11A

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.0836	1.1410	1.1249	1.0607	1.0326	1.0433	1.1494	1.2389	1.3284	1.4154
2	1.0000	1.1791	1.2820	1.4584	1.4523	1.5017	1.6514	1.8194	1.9611	2.1027	2.2105
3	1.0000	0.6807	0.6732	0.6429	0.6428	0.6400	0.6500	0.7162	0.7719	0.8277	0.8819
4	1.0000	0.8947	0.9606	0.9504	0.9531	0.9650	1.0021	1.1040	1.1900	1.2760	1.3595
5	1.0000	0.8058	0.9213	0.9145	0.9065	0.9055	0.9208	1.0145	1.0935	1.1725	1.2493
6	1.0000	0.9605	1.1469	1.3310	1.5112	1.7072	1.9104	2.1048	2.2687	2.4326	2.5919
7	1.0000	0.9253	0.9918	0.9587	0.9484	0.9721	1.0220	1.1259	1.2136	1.3013	1.3865
8	1.0000	0.7804	0.8494	0.8744	0.8760	0.9015	0.9428	1.0387	1.1196	1.2004	1.2791
9	1.0000	0.9254	1.0282	1.1197	1.1704	1.2411	1.3409	1.4773	1.5924	1.7074	1.8193
10	1.0000	0.9080	0.9820	1.0203	1.0373	1.0525	1.0829	1.1931	1.2860	1.3789	1.4692

INDEX OF INDUSTRIAL PRODUCTION - SIC

11A - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

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	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	1.62	1.04	-0.28	-1.17	-0.53	0.21	1.96	1.51	1.40	1.28
2	3.35	1.69	2.61	-0.08	0.67	1.92	1.96	1.51	1.40	1.28
3	-7.40	-0.22	-0.92	0.00	-0.09	0.31	1.96	1.51	1.40	1.28
4	-2.20	1.43	-0.21	0.06	0.25	0.76	1.96	1.51	1.40	1.28
5	-4.23	2.71	-0.15	-0.18	-0.02	0.34	1.96	1.51	1.40	1.28
6	-0.80	3.61	3.02	2.57	2.47	2.27	1.96	1.51	1.40	1.28
7	-1.54	1.60	-0.68	-0.22	0.50	1.01	1.96	1.51	1.40	1.28
8	-4.84	1.71	0.58	0.04	0.58	0.90	1.96	1.51	1.40	1.28
9	-1.54	2.13	1.72	0.89	1.18	1.56	1.96	1.51	1.40	1.28
10	-1.91	1.58	0.77	0.33	0.29	0.57	1.96	1.51	1.40	1.28

INDEX OF INDUSTRIAL PRODUCTION - SIC

11A - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	0.30	-0.17	1.54	0.70		14.38	0.46	-9.80	-9.80
2	1.00	1.88	1.29	1.54	1.63		28.51	37.54	42.77	42.77
3	1.00	-2.19	0.11	1.54	-0.25		-32.52	-39.12	-43.80	-43.80
4	1.00	-0.24	0.50	1.54	0.62		-3.71	-9.73	-13.36	-13.36
5	1.00	-0.49	0.16	1.54	0.45		-7.65	-14.15	-20.39	-20.39
6	1.00	2.09	2.37	1.54	1.92		14.96	43.13	65.17	65.17
7	1.00	-0.26	0.75	1.54	0.66		-0.59	-10.18	-11.64	-11.64
8	1.00	-0.66	0.74	1.54	0.49		-14.86	-17.03	-18.49	-18.49
9	1.00	0.79	1.37	1.54	1.20		3.06	10.85	15.93	15.93
10	1.00	0.18	0.43	1.54	0.77		-1.56	-1.76	-6.38	-6.38

INDEX OF INDUSTRIAL PRODUCTION - SIC 15 HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1595	1.3814	1.5473	1.6489	1.7928	1.9820	2.1634	2.2967	2.4107	2.5001
2	1.0000	1.2281	1.5354	1.5899	1.7528	1.9079	2.0636	2.2525	2.3913	2.5100	2.6031
3	1.0000	0.9709	1.1042	1.1670	1.3033	1.4362	1.5756	1.7197	1.8257	1.9164	1.9875
4	1.0000	1.1186	1.1432	1.1716	1.3481	1.5213	1.7100	1.8664	1.9815	2.0798	2.1570
5	1.0000	0.9611	1.0899	1.0926	1.1799	1.2769	1.3119	1.4319	1.5202	1.5957	1.6568
6	1.0000	0.9195	1.0825	1.2914	1.3688	1.5314	1.7672	1.9289	2.0477	2.1494	2.2291
7	1.0000	0.9863	1.1308	1.1977	1.3065	1.4909	1.7020	1.8578	1.9723	2.0702	2.1470
8	1.0000	1.1328	1.2452	1.3277	1.4709	1.6233	1.8386	2.0068	2.1305	2.2362	2.3192
9	1.0000	1.1258	1.2300	1.4466	1.6096	1.7914	1.9845	2.1661	2.2996	2.4137	2.5032
10	1.0000	0.8224	0.9310	1.0632	1.1267	1.2452	1.3760	1.5019	1.5945	1.6736	1.7357

INDEX OF INDUSTRIAL PRODUCTION - SIC 15 - AVERAGE ANNUAL GROWTH RATES HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	3.00	3.56	2.29	1.28	1.69	2.03	1.77	1.20	0.97	0.73
2	4.20	4.57	0.70	1.97	1.71	1.58	1.77	1.20	0.97	0.73
3	-0.59	2.61	1.11	2.23	1.96	1.87	1.77	1.20	0.97	0.73
4	2.27	0.43	0.49	2.85	2.45	2.37	1.77	1.20	0.97	0.73
5	-0.79	2.55	0.05	1.55	1.59	0.54	1.77	1.20	0.97	0.73
6	-1.67	3.32	3.59	1.17	2.27	2.91	1.77	1.20	0.97	0.73
7	-0.28	2.77	1.16	1.75	2.68	2.68	1.77	1.20	0.97	0.73
8	2.52	1.91	1.29	2.07	1.99	2.52	1.77	1.20	0.97	0.73
9	2.40	1.79	3.30	2.16	2.16	2.07	1.77	1.20	0.97	0.73
10	-3.84	2.51	2.69	1.17	2.02	2.02	1.77	1.20	0.97	0.73

INDEX OF INDUSTRIAL PRODUCTION - SIC 15 - SUMMARY TABLE HIGH CASE ANL/ARAM/ISTUM 11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	2.53	1.86	1.17	1.85		16.34	16.82	14.49	14.49
2	1.00	2.85	1.65	1.17	1.93		29.31	24.18	19.21	19.21
3	1.00	1.33	1.92	1.17	1.38		-7.01	-7.67	-8.99	-8.99
4	1.00	1.50	2.41	1.17	1.55		-3.72	-4.49	-1.22	-1.22
5	1.00	0.83	1.07	1.17	1.01		-8.21	-16.41	-24.22	-24.22
6	1.00	1.58	2.59	1.17	1.62		-8.83	-3.03	2.08	2.08
7	1.00	1.35	2.68	1.17	1.54		-4.76	-7.44	-1.68	-1.68
8	1.00	1.95	2.26	1.17	1.70		4.87	4.20	6.21	6.21
9	1.00	2.41	2.12	1.17	1.85		3.59	14.03	14.63	14.63
10	1.00	0.60	2.02	1.17	1.11		-21.59	-20.18	-20.51	-20.51

INDEX OF INDUSTRIAL PRODUCTION - SIC 331

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1976	1.5597	1.8568	2.1304	2.4600	2.8247	3.1957	3.4907	3.7581	3.9826
2	1.0000	0.9621	1.1628	1.3198	1.5243	1.7874	2.0862	2.3602	2.5780	2.7755	2.9412
3	1.0000	1.0009	1.2514	1.3799	1.5725	1.8073	2.0869	2.3610	2.5789	2.7764	2.9422
4	1.0000	1.3374	1.7433	2.0740	2.4126	2.7891	3.2159	3.6383	3.9740	4.2785	4.5339
5	1.0000	1.1466	1.3675	1.5636	1.7647	2.0119	2.2981	2.6000	2.8399	3.0575	3.2400
6	1.0000	1.0856	1.4206	1.7132	1.9847	2.2945	2.6606	3.0100	3.2878	3.5397	3.7510
7	1.0000	1.2841	1.5950	1.8376	2.0863	2.3796	2.7041	3.0593	3.3417	3.5977	3.8124
8	1.0000	1.0545	1.4242	1.7752	2.1850	2.6746	3.1762	3.5934	3.9250	4.2257	4.4780
9	1.0000	1.1024	1.4572	1.6954	1.9458	2.2166	2.4912	2.8184	3.0785	3.3144	3.5123
10	1.0000	1.1462	1.4759	1.7546	2.0057	2.3065	2.6609	3.0104	3.2882	3.5401	3.7514

INDEX OF INDUSTRIAL PRODUCTION - SIC 331 - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

1980-1985 1985-1990 1990-1995 1995-2000 2000-2005 2005-2010 2010-2015 2015-2020 2020-2025 2025-2030

III

	1980	1985	1990	1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	3.67	5.43	3.55	2.79	2.92	2.80	2.50	1.78	1.49	1.17	
2	-0.77	3.86	2.56	2.92	3.24	3.14	2.50	1.78	1.49	1.17	
3	0.02	4.57	1.97	2.65	2.82	2.92	2.50	1.78	1.49	1.17	
4	5.99	5.44	3.53	3.07	2.94	2.89	2.50	1.78	1.49	1.17	
5	2.14	3.62	2.72	2.45	2.66	2.70	2.50	1.78	1.49	1.17	
6	1.60	5.53	3.82	2.99	2.94	3.00	2.50	1.78	1.49	1.17	
7	5.13	4.43	2.87	2.57	2.67	2.59	2.50	1.78	1.49	1.17	
8	1.07	6.20	4.50	4.24	4.13	3.50	2.50	1.78	1.49	1.17	
9	1.97	5.74	3.08	2.79	2.64	2.36	2.50	1.78	1.49	1.17	
10	2.77	5.19	3.52	2.71	2.83	2.90	2.50	1.78	1.49	1.17	

INDEX OF INDUSTRIAL PRODUCTION - SIC 331 - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030	1990	2000	2010	2030
1	1.00	3.85	2.86	1.73	2.80	7.88	8.63	7.79	7.79
2	1.00	2.13	3.19	1.73	2.18	-19.57	-22.28	-20.39	-20.39
3	1.00	2.29	2.87	1.73	2.18	-13.44	-19.82	-20.36	-20.36
4	1.00	4.50	2.92	1.73	3.07	20.58	23.02	22.72	22.72
5	1.00	2.88	2.68	1.73	2.38	-5.41	-10.02	-12.30	-12.30
6	1.00	3.49	2.97	1.73	2.68	-1.74	1.20	1.53	1.53
7	1.00	3.75	2.63	1.73	2.71	10.32	6.38	3.19	3.19
8	1.00	3.99	3.81	1.73	3.04	-1.49	11.41	21.21	21.21
9	1.00	3.38	2.50	1.73	2.54	0.79	-0.79	-4.93	-4.93
10	1.00	3.54	2.87	1.73	2.68	2.08	2.27	1.54	1.54

INDEX OF INDUSTRIAL PRODUCTION - SIC 3334

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1.1132	1.0692	1.2259	1.3317	1.5101	1.7423	2.0335	2.2542	2.4095	2.5070	2.5776
3	1.1132	1.1353	1.2955	1.3872	1.5633	1.7731	2.0417	2.2633	2.4193	2.5171	2.5881
4	1.1132	1.5303	1.8473	2.0852	2.3751	2.7012	3.1099	3.4474	3.6850	3.8340	3.9421
5	1.1132	1.3714	1.5535	1.7044	1.8913	2.1240	2.4283	2.6918	2.8774	2.9937	3.0781
6	1.1132	1.2558	1.5179	1.7441	1.9881	2.2645	2.6188	2.9030	3.1031	3.2285	3.3195
7	1.1132	1.4963	1.7459	1.9218	2.1451	2.4099	2.7380	3.0351	3.2444	3.3755	3.4707
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1.1132	1.3451	1.6433	1.8773	2.1134	2.3964	2.7675	3.0678	3.2793	3.4119	3.5081

INDEX OF INDUSTRIAL PRODUCTION - SIC 3334- AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	-0.80	2.77	1.67	2.55	2.90	3.14	2.08	1.34	0.80	0.56
3	0.39	2.68	1.38	2.42	2.55	2.86	2.08	1.34	0.80	0.56
4	6.57	3.84	2.45	2.64	2.61	2.86	2.08	1.34	0.80	0.56
5	4.26	2.53	1.87	2.10	2.35	2.71	2.08	1.34	0.80	0.56
6	2.44	3.86	2.82	2.65	2.64	2.95	2.08	1.34	0.80	0.56
7	6.10	3.13	1.94	2.22	2.36	2.59	2.08	1.34	0.80	0.56
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	3.86	4.09	2.70	2.40	2.54	2.92	2.08	1.34	0.80	0.56

INDEX OF INDUSTRIAL PRODUCTION - SIC 3334- SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030	1990	2000	2010	2030
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1.11	1.54	3.02	1.19	1.69	-20.76	-22.19	-19.75	-19.75
3	1.11	1.71	2.71	1.19	1.70	-16.26	-19.46	-19.42	-19.42
4	1.11	3.86	2.73	1.19	2.56	19.41	22.37	22.73	22.73
5	1.11	2.69	2.53	1.19	2.06	0.42	-2.56	-4.17	-4.17
6	1.11	2.94	2.79	1.19	2.21	-1.88	2.43	3.35	3.35
7	1.11	3.33	2.47	1.19	2.30	12.85	10.52	8.05	8.05
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	1.11	3.26	2.73	1.19	2.32	6.22	8.89	9.22	9.22

INDEX OF INDUSTRIAL PRODUCTION - SIC 33R

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030
1	1.0000	1.1676	1.4731	1.6763	1.8696	2.1182	2.4060	2.6030	2.7158	2.7624	2.7336
2	1.0000	1.0244	1.1693	1.2643	1.4155	1.6251	1.8721	2.0254	2.1132	2.1494	2.1270
3	1.0000	0.9989	1.2178	1.3072	1.4490	1.6271	1.8486	1.9999	2.0866	2.1224	2.1002
4	1.0000	1.2241	1.5396	1.7409	1.9697	2.2426	2.5573	2.7667	2.8867	2.9362	2.9055
5	1.0000	1.0967	1.2402	1.3454	1.4677	1.6341	1.8386	1.9892	2.0754	2.1110	2.0890
6	1.0000	1.0485	1.3071	1.4980	1.6784	1.8955	2.1649	2.3421	2.4437	2.4856	2.4596
7	1.0000	1.2082	1.4492	1.5979	1.7590	1.9643	2.2099	2.3908	2.4994	2.5372	2.5107
8	1.0000	1.0347	1.3500	1.5197	1.7668	2.0890	2.4350	2.6344	2.7486	2.7958	2.7665
9	1.0000	1.0525	1.3488	1.5150	1.7079	1.9272	2.1582	2.3349	2.4361	2.4779	2.4520
10	1.0000	1.0790	1.3309	1.4908	1.6397	1.8354	2.0790	2.2492	2.3467	2.3870	2.3620

INDEX OF INDUSTRIAL PRODUCTION - SIC

33R - AVERAGE ANNUAL GROWTH RATES

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980-1985	1985-1990	1990-1995	1995-2000	2000-2005	2005-2010	2010-2015	2015-2020	2020-2025	2025-2030
1	3.15	4.76	2.62	2.21	2.53	2.58	1.59	0.85	0.34	-0.21
2	0.48	2.68	1.57	2.29	2.80	2.87	1.59	0.85	0.34	-0.21
3	-0.02	4.04	1.43	2.08	2.35	2.58	1.59	0.85	0.34	-0.21
4	4.13	4.69	2.49	2.50	2.63	2.66	1.59	0.85	0.34	-0.21
5	1.86	2.49	1.64	1.75	2.17	2.39	1.59	0.85	0.34	-0.21
6	0.95	4.51	2.76	2.30	2.46	2.69	1.59	0.85	0.34	-0.21
7	3.85	3.71	1.97	1.94	2.23	2.38	1.59	0.85	0.34	-0.21
8	0.69	5.46	2.40	3.06	3.41	3.11	1.59	0.85	0.34	-0.21
9	1.03	5.09	2.35	2.43	2.45	2.29	1.59	0.85	0.34	-0.21
10	1.53	4.28	2.30	1.92	2.28	2.52	1.59	0.85	0.34	-0.21

INDEX OF INDUSTRIAL PRODUCTION - SIC

33R - SUMMARY TABLE

HIGH CASE

ANL/ARAM/ISTUM

11/21/85

	1980	1980-2000	2000-2010	2010-2030	1980-2030		1990	2000	2010	2030
1	1.00	3.18	2.55	0.64	2.03		9.72	11.80	11.55	11.55
2	1.00	1.75	2.83	0.64	1.52		-12.91	-15.36	-13.21	-13.21
3	1.00	1.87	2.47	0.64	1.50		-9.30	-13.35	-14.30	-14.30
4	1.00	3.45	2.65	0.64	2.16		14.68	17.78	18.56	18.56
5	1.00	1.94	2.28	0.64	1.48		-7.63	-12.23	-14.76	-14.76
6	1.00	2.62	2.58	0.64	1.82		-2.64	0.36	0.37	0.37
7	1.00	2.86	2.31	0.64	1.86		7.94	5.18	2.45	2.45
8	1.00	2.89	3.26	0.64	2.06		0.55	5.65	12.89	12.89
9	1.00	2.71	2.37	0.64	1.81		0.46	2.13	0.06	0.06
10	1.00	2.50	2.40	0.64	1.73		-0.87	-1.95	-3.62	-3.62



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